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MAR 2002

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New

## DIMENSION™ 4400

Pictured with optional upgrade to 19" Trinitron Monitor (add $694*).

- Intel® Pentium® 4 Processor 1.6GHz
- 20GB[1] Hard Drive ■ 128MB 266MHz DDR SDRAM
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## DIMENSION™ 8200

Pictured with optional upgrade to 19" Trinitron Monitor (add $694*).

- Intel® Pentium® 4 Processor 1.8GHz
- 20GB[1] Hard Drive
- 128MB RDRAM ■ 16X Max DVD-ROM
- PC Stereo Speakers ■ 56K Modem
- 64MB nVidia GeForce2 MX AGP Graphics Card
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- 16X Max DVD-ROM
- 64MB nVidia GeForce2 MX AGP Graphics Card
- SoundBlaster Live! Value 576 Voice Sound Card
- 17" Colour Monitor (15.9"v.i.s.)
- PC Stereo Speakers ■ 56K Modem
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- 32MB DDR 4 X AGP NVIDIA GeForce2 Go 3D Video
- 14.1" XGA TFT Display (1024x768 res)
- 3D Positional Sound with Wavetable ■ 24X Max CD-ROM
- Microsoft® Windows® XP Home Edition
- Microsoft Works Suite 2001 – OEM Version
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- Harman/Kardon® Odyssey® 2 Speakers (Internal)
- 15" SXGA TFT Display (1400x1050 res)
- 24X Max CD-ROM ■ Microsoft® Windows® XP Home Edition
- Microsoft® Works Suite 2001 – OEM version
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- Mobile Intel® Pentium® III Processor 1.2GHz – M featuring Intel® Speedstep™ technology ■ 10GB[1] Hard Drive
- 256MB PC133 SDRAM
- 32MB DDR 4x AGP nVIDIA GeForce2 Go™ 3D Video
- 3D Positional Sound with Wavetable
- Harman/Kardon® Odyssey® 2 Speakers (Internal)
- 15" SXGA + TFT Display (1400x1050 res)
- 8X Max DVD-ROM ■ Microsoft® Windows® XP Home Edition
- Microsoft® Works Suite 2001 – OEM version
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- 15" Colour Monitor (13.8"v.i.s.)
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- 14.1" XGA TFT Display (1024x768res)
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- 24X Max CD-ROM
- Microsoft® Windows® XP Home Edition
- Microsoft Works Suite 2001 – OEM Version
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# Free additional 128MB RAM

or upgrade to 40GB[1] hard drive on any Dimension™ featured in this ad.

(Offers valid til 28th February, 2002)

Dell Dimension™ 4400 featuring Intel® Pentium® 4 Processor

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intel inside pentium 4

# Great value from The World's #1 PC Vendor[3]

Dell Dimension™ 4400 featuring Intel® Pentium® 4 Processor desktop pictured with optional 19" Trinitron flat display monitor (18" v.i.s) add $867*. Advertised price includes 15" colour monitor (13.8" v.i.s)

## AN UNBELIEVABLE PRICE

Looking for an advanced desktop at an affordable price? Look no further than the NEW Dimension™ 4400. The 4400 delivers Intel® Pentium® 4 processor power and DDR SDRAM memory for the best combination of performance and price. From only $1,799* plus $99* standard delivery, this is another great deal from the World's #1 PC vendor[3].

## GOES WHEREVER YOU GO

The Inspiron™ 4100 features the processing performance of the Intel® Pentium® III Processor – M supporting Enhanced Intel® Speedstep™ technology with a thin and light chassis providing a portable solution that gives you the power you need.

### DIMENSION™ 4400 DESKTOP

- Intel® Pentium® 4 Processor 1.7GHz
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- 20GB[1] Hard Drive
- 48X Max CD-ROM
- 3.5" Floppy Drive
- 15" Colour Monitor (13.8"v.i.s.)
- Integrated audio with SoundBlaster @Pro/16 compatibility
- 16MB ATI Rage Ultra 4x AGP Video Card
- Microsoft® Windows® XP Home Edition
- Microsoft® Works Suite 2001– OEM Version
- Norton Anti-Virus 2002 – OEM Version
- 1-Year Limited Warranty (1 Year Next Business Day On-site[2] Service)
- **FREE additional 128MB DDR SDRAM or upgrade to 40GB[1] hard drive**
- **FREE 3 Month Internet Access with AOL. Conditions Apply.[5]**

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### INSPIRON™ 4100 G1000GT NOTEBOOK

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- 128MB PC133 SDRAM
- 10GB[1] Hard Drive
- 16MB ATI Rage Mobility Radeon – P 4X AGP
- 3D Positional Sound with Wavetable
- 14.1" XGA TFT Display (1024x768 res)
- 24X Max CD-ROM
- 3.5" FDD
- Microsoft® Windows® XP Home Edition
- Microsoft® Works Suite 2001 – OEM version
- 1-Year Limited Warranty (Next Business Day On-site[2] Service)
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■ The blame game.

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■ **Fujitsu Lifebook E-6666:** First cousin thrice removed of the original beast, this little devil is red hot.

■ **Terratec EWX 24/96:** No-frills digital audio mastering.

■ **CD Maker version 5:** If you have a burning desire, you need a dedicated CD-creating tool.

■ **Chapura Pocketmirror:** Synchronise your Outlook with your handheld.

■ **Kyocera Mita FS-1010:** A great little printer: fast, affordable and high-quality printing.

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**Brute force**

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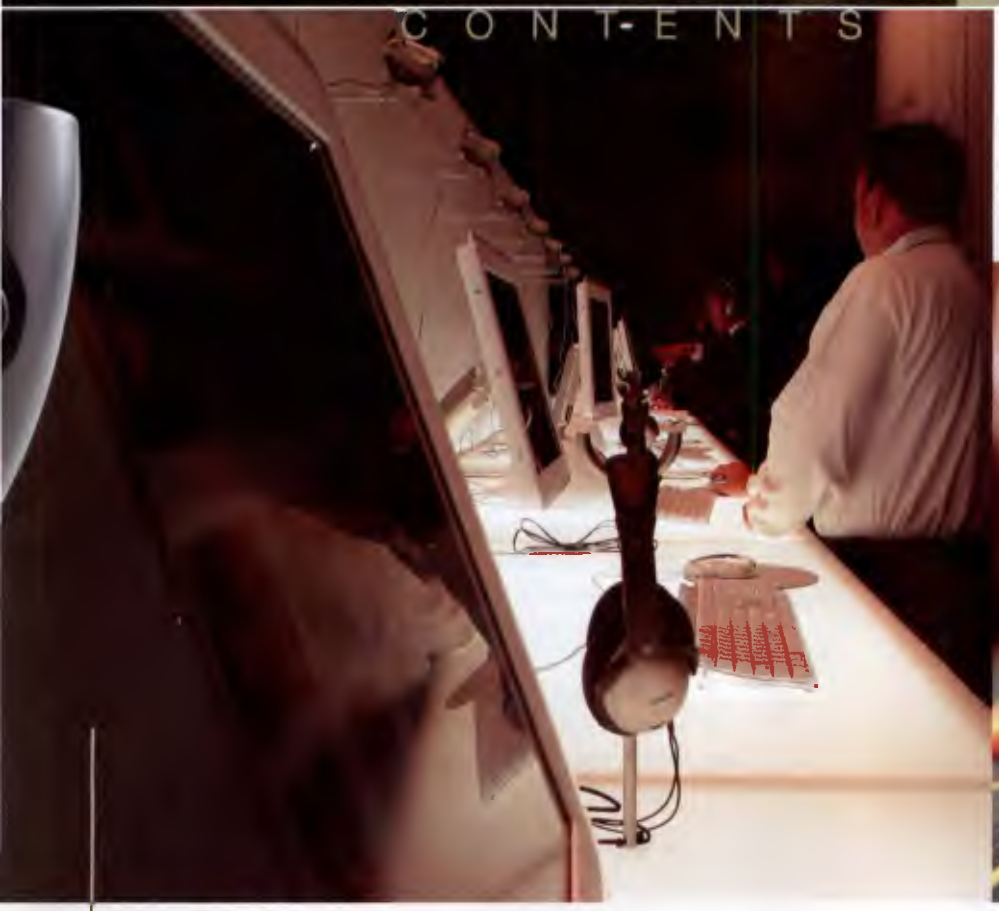

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**Last month *APC* featured the meteoric launch of Microsoft' new gaming platform, the Xbox, along with our own *APC* Xbox feature site. So great was your response to the site that we've decided to leave it open for you to surf for the next month. So grab your Xbox screensavers and other downloads while you can at www.apcmag.com/xbox.**

## THREADS

Each month *APC* receives many comments and opinions through its Web site and this month was no exception. You sent in many useful suggestions following our call for improvement tips for our Web site.

Rick wrote, "Perhaps you could include the discussion forums in your site search page so that I can find more information when I'm searching?"

Kylz thought that "the review chat forums are useful, but I thi a good idea would be to build a chat room for general topics".

A big thank you to all of you who have already sent your feedback to us. The time for submissions is drawing to a close an this month will be your last chance to have your say about the creation of the new *APC* online. So log on and drop us a line at apc@apcmag.com.

## ERROR 404?

As many of our loyal online readers were quick to point out, *APC* dropped the ball over the New Year period with our site uptime being less than reliable. We apologise for the site outages and an inconvenience caused. However, we would like you to rest assure in the knowledge that the site downtime was due to major Web a database server upgrades which play a key part in bringing you t much-awaited new *APC* online.

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# CD CONTENTS

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### NO MAC's AN ISLAND

Mac OS X makes it easy to live and work with Windows users — they probably won't even know that you're using a Macintosh. To make life even more comfortable, we've provided some programs that aid communication between Mac and Windows.

### NVIDIA TWEAKS

Inspired by our graphics card round-up, we've included tools to help you squeeze the most out of your GeForce card. Check out our special Workshop article (page 119) for more information on how to use them.

### CLEAN INSTALL KIT

Was reformatting your hard drive this year's New Year's resolution? It's probably about time to get on with it, so *APC* has made it easy for you by collecting all those indispensable utilities together for reinstalling. Ready when you are!

**CLEAN INSTALL KIT** ACDSee 4.0.1, Ad-aware 5.62, Adobe Acrobat Reader 5.0.5, CloneCD 3.3.4.1, CuteFTP (32-bit) 4.2.5, DivX 4.12 Bundle (including the codec and The Playa 0.6.6), Download Accelerator Plus 5.0, GoZilla Free 4.1, ICQ 2001b 5.18 Build 3659, mIRC (32-bit) 5.91, MusicMatch Jukebox 7.0, Opera 6.0 with JRE 1.3, PowerStrip 3.12, QuickTime 5, RealPlayer 8.0 Basic, SiSoftware Sandra 2001te (5.8.11), Trillian 0.71, Tweak UI 1.33, Winamp 2.78, WinRAR 2.90, WinZip 8.1, WS_FTP LE 5.08, ZoneAlarm 2.6.362
**WORKSHOP Mac feature** Citrix client for Macintosh 6.20.127, GraphicConverter 4.2, icWord 2.0, QuickTime 5 for Macintosh, StuffIt Expander for Linux 5.2, StuffIt Expander for Macintosh 6.5.1, StuffIt Expander for Windows 7.0 **Windows** DVD Genie 4.05, DVD Profiler 1.1.0, FreeDVD 2.0, InterVideo WinDVD 3.0, VideoLAN 0.2.92 **Handhelds** Beam Box 1.22, InStep Print 2.1, IR Mail 1.1, IR Pong 1.1, IRBattleShip 2.0, IrChat 1.0, IRChess 2.0, OmniRemote 1.171 **Photoshop** Baby-Gray.psd, Baby-Color-Paths.psd, Baby-Color-NoPaths.psd, BabyColors.aco **Flash** Smart Menus — source files, 3D Flash Animator 3.41, Adobe LiveMotion 1.0, JNetCheck 1.0, PHP Flash Turbine 5.0, SwiffCANVAS 1.0, The JGenerator 1.3.1, Turbine Video Encoder 1.0, Wildform SWfX **Digital video** avi2vcd 1.313, TMPGEnc 2.02, VirtualDub 1.4 **nVidia tweaks** 3DMark2001, nVidia Detonator XP Drivers 21.83, NVmax, Windows 2000/XP nVidia Refresh Rate Fix 2.1 build 169 **Web** ASP code for Web-based email, MailMan 1.0, w3 JMail 4.3
**NEED TO LOAD Windows** Ad-aware 5.62, Fruityloops 3.4, IE Window Killer 0.8B, PartitionMagic 7.0, R-Studio 2.0, SmartDraw 6.01, VisualRoute 6.0b, Xnews 4.11.09 **Mac** Cabrio 1.4, Dock Detox 1.0, eZediaMX 3.0, LimeWire 2.0, MacVCD 3.0, Opera 5.0, Personal Organizer 4.0.2, Quickie Web Albums 2.0 **Linux** Atlantik 0.1.1, Bluefish HTML editor 0.7, Firestarter 0.8, GnomeMeeting 0.12.2, Krosseye 0.3 **Handhelds** Back Up and Strip 1.0, MonkeyMessenger 1.0, Multipass 1.2.1, My Contacts 1.0, PocketJournal 1.04, RecBin 1.31, Resco SPA 1.3, upIRC 3.0, Windows Media Player (Pocket PC) 7.1
**ON TEST** Specs and benchmarks for reviews and Labs Challenge
**REQUESTS** CoolSpeech 4.2, Mighty Fax 2.9, Win32 Font Lister 3.9
**TOOLKIT** Adobe Acrobat Reader 5.05, Aladdin StuffIt Expander 6.5.1, BitchX 1.0c18, Downloader for X 1.30, Eudora 5.1, FinderPop 1.9.2, Fresh Download 7.5, GKrellM 1.2.8, GraphicConverter 4.2, ICQ 2001b v5.18 Build 3659, Interarchy 5.0.1, Licq 1.04, Palm Desktop 2.6.3, PowerStrip 3.12, ProZilla 1.3.6, RealPlayer 8.0 Basic, Sisoft SANDRA 2001te (5.8.11), smIRCle 1.0.1a25, TechTool Lite 3.0.1, Tex-Edit Plus 4.1.2, Toms Root Boot disk 1.7.361, Webmin 0.91, Winamp 2.78, Windows Media Player for Mac 7.1, WinZip 8.1, WS_FTP LE 5.08, XMMS 1.26
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**3D DESIGN**
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Comanche 4 single and multiplayer demos, Medal of Honor: Allied Assault

**DirectX**
DirectX 8.1 runtime

### CREATE IN 3D

So you want to design the next iMac? Enter the world of industrial design with the collection of 3D design tools on this month's cover CD.

### MEDAL OF HONOR: ALLIED ASSAULT

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# apc

AUSTRALIAN PERSONAL COMPUTER

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| Editor | David Flynn *dflynn@apcmag.com* |
| Deputy Editor | Garth Montgomery *gmontgomery@apcmag.com* |
| Technical Editor | Simon Tsang *stsang@apcmag.com* |
| Journalists | Fiona Angus *fangus@apcmag.com* |
| | Daniel Gardiner *dmgardiner@apcmag.com* |
| | William Maher *wmaher@apcmag.com* |
| | Matt Overington *moverington@apcmag.com* |
| Editorial Coordinator | Cathy Parkee *cparkee@apcmag.com* |

## DESIGN

| | |
|---|---|
| Group Creative Director | Michèle Heibel *mheibel@acp.com.au* |
| Graphic Artists | Craig Carroll, Hye Won Kang |
| Photography | Rob Clark, Steve Holland, Hamish Ta-mé, Rob Taylor, Getty Images, AAP |
| Illustration | Warren Taylor |

## PRODUCTION

| | |
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| Sub-Editors | Suzanne Fraser, Megan Smith, Jocelyn Hungerford |

## MULTIMEDIA

| | |
|---|---|
| Multimedia Production Editor | Nola Camden *ncamden@acp.com.au* |
| Web and Database Manager | Dan Lowden *dlowden@acp.com.au* |
| Acting CD Coordinator | Laura Kane |
| Web Coordinator | Laura Kane |
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## ADVERTISING

| | |
|---|---|
| NSW Advertising Manager | Cameron Curtis *ccurtis@acp.com.au* |
| Senior Account Manager | Sumit Roy |
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| Advertising enquiries | (02) 9288 9150 |
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## MARKETING

| | |
|---|---|
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| Assistant Brand Manager | Melody Sarkissian |

## ACP TECH

| | |
|---|---|
| CEO | John Alexander |
| Group Publisher | Jill Baker |

**CONTACTING US**

**Email** *apc@apcmag.com*
**Web** www.apcmag.com
**Phone** (02) 9288 9123
**Fax** (02) 9267 4909
**Postal** PO Box 4088 Sydney NSW 1028
**Street** Level 9, 175–183 Castlereagh St, Sydney

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**ISSUE 279** MARCH 2002

It's been called the post-PC era; the re-imagining of the computer as a hub for the electronic home, in which every device is connected. Microsoft and Intel are predicting it, as are Apple, Sun and Sony. And LG's advertising campaign for its home network is bringing the concept into the mainstream.

None of this means the PC will go away. If anything, PC technology is extending into every corner of the home, and quite some way beyond. There will always be room for a machine which pipes the high-speed Net connection into your home.

In the long term, however, it might look less like a desktop PC and more like a microwave — a simple box which acts as gateway and traffic cop for all the data being shunted around the house. You'll mount it in a cupboard or under the stairs.

The cool stuff will be where the human interaction takes place: snazzy-looking terminals or notepad-sized tablets where you work and surf; stereo systems that let you play digital audio; large-screen TV sets for browsing your online photo album or recording a movie (onto a hard drive under the stairs, and accessible through other display devices on the network).

If my visit to January's Consumer Electronics Show in Las Vegas was anything to go by, *everyone* is in for a piece of the action. Having all but conquered business and home desktops, those spaces in which we actually get down to *living* are bound to be the next frontier.

*APC*'s technical editor Simon Tsang noticed much the same trend at MacWorld in San Francisco. As impressive as the iMac is, Apple's new iPhoto software is more significant. Following iMovie, iTunes and iDVD, iPhoto completes the set. This is the stuff that people use every day — to capture memories and re-live experiences — and that's the stuff which will fire imaginations and deliver the digital dream.

David Flynn

invent

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# NEED TO

## DVD KILLED **THE VIDEO STAR**

Video cassettes will soon be gathering dust alongside your vinyl collection. Recordable DVD decks at lounge-room prices were the stars of this year's CES. Philips, Panasonic and Pioneer all showcased products at around $2,000, with entry-level machines expected to drop to $999 by year's end. So why buy a VCR when one digital deck lets you listen to audio CDs (and possibly MP3 and WMA discs), watch DVD movies and record your favourite shows on to DVD? Bye bye, VHS!

## MO' **MEMORY**

It's no secret that we at *APC* are big fans of M-Systems' DiskOnKey, with its nifty size, fast memory and plug-and-play USB hook-up. Now it's also bootable and comes with a password-protected partition where you can store private files when handing around the Key. So what's next for this little gem? Try a whopping 1GB capacity by year's end, connection via ultra-fast FireWire and USB2, and wireless Bluetooth technology. We'll take one of each.

## MP3 MEGA-**PLAYERS**

It's also the year of digital music portables with mammoth hard drives. Forget about shuffling tracks between your PC and player. SonicBlue's Rio Riot (around $800) was one of several portable jukebox devices in the spotlight. Its 20GB hard drive can take hundreds of albums and thousands of tunes on the go — you manage it via a large, informative LCD screen with a super-easy interface.

SonicBlue also demonstrated the Rio Advanced Digital Audio Center, a home stereo component with a 40GB hard drive, integrated CD-RW deck for playing and ripping, a 56K modem and USB ports, RCA and optical outputs for hooking into your PC or stereo system.

# KNOW

**DAVID** FLYNN RETURNS FROM THE 2002 CONSUMER ELECTRONICS SHOW (CES) IN LAS VEGAS TO REVEAL THE HOTTEST GEAR OF THE NEW YEAR.

## RIP, **ROCK AND ROLL**

What do you get when you cross a digital audio portable with a CD burner and a MiniCD drive? Imation's $800 RipGO. Slide an audio CD into your computer, plug the RipGo into the USB port and the player's built-in ripper will burn up to six hours of music in MP3 or Windows Media format on to an 80mm MiniCD disc. The 185MB coaster-sized discs (about $20 each) can also be used to store and share conventional files such as documents, presentations, pictures and video clips.

## DIGITAL **DOOF**

Bored on those long car drives? The CES showcased no end of ways to stay entertained, especially with rear-seat screens and consoles perfect for cocooning yourself inside the RV.

Satellite radio created the biggest buzz. Two competing systems — XM and Sirius — have blanketed the US from coast to coast with hundreds of digital channels of news, talk, sports, children's programming and music in every possible genre.

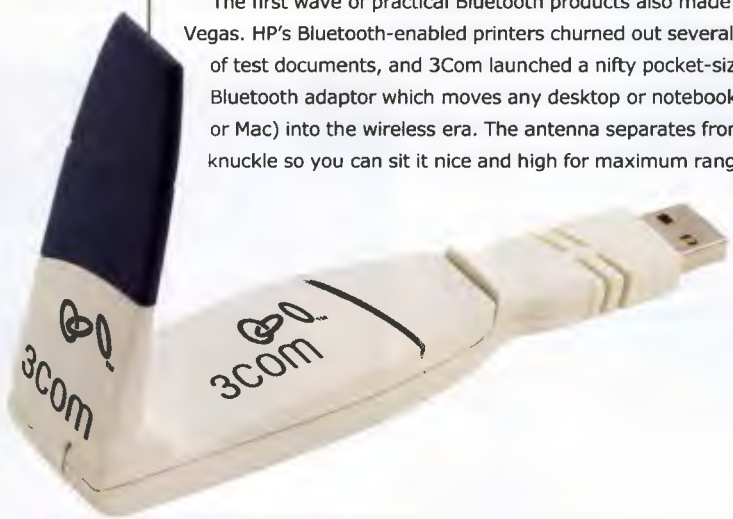
The cost is about $20 per month, but you'll also be up for a new in-dash radio, which starts at around $500. Sony has also released a transportable "plug-and-play" unit which works in the car and at home. Taking a different tack, Pioneer's Entre home entertainment hub receives and distributes satellite radio to other receivers around the house.

We also spied dozens of new in-dash decks with hard disk drives and memory card slots, as well as playback for home-burnt CDs packed with MP3 and WMA tracks.

## BLUETOOTH **BITES**

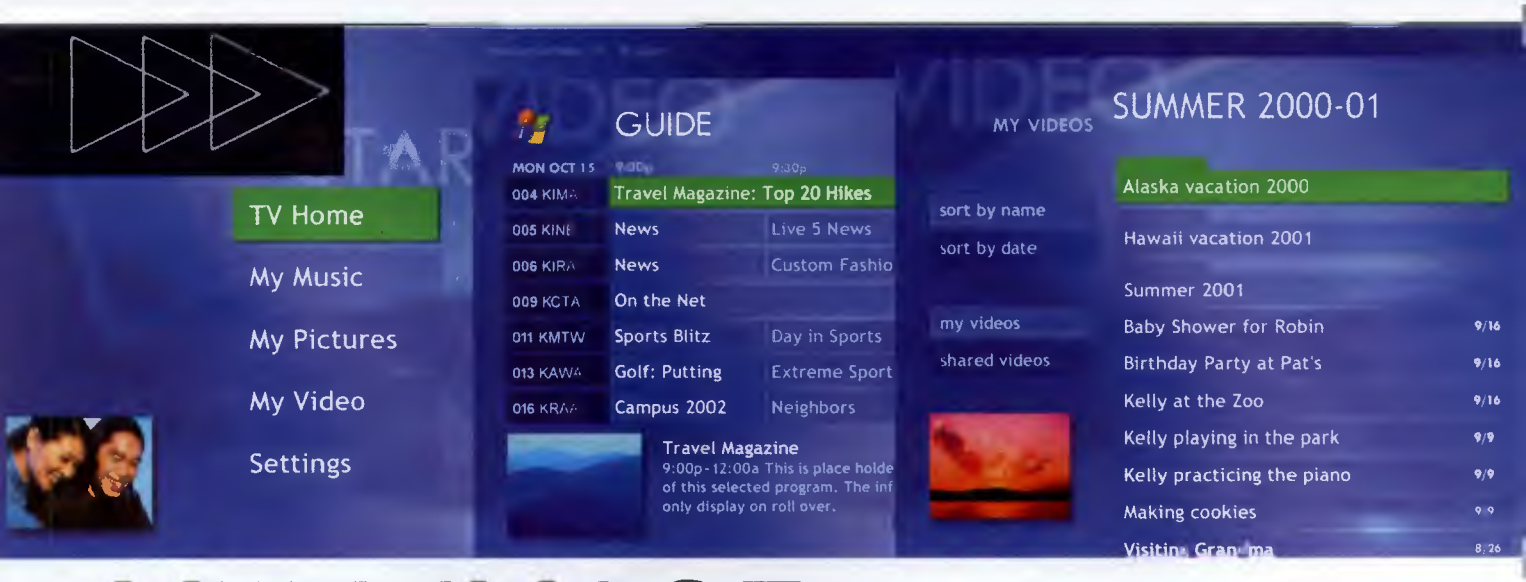
Wireless networking was *everywhere* at the CES — literally. A public access system allowed attendees to surf and check email using their WiFi-equipped notebooks or handhelds. Of the many 802.11 delights available, we particularly liked Motorola's Simplefi, which lets you play digital music tracks stored on your PC through your home stereo system.

The first wave of practical Bluetooth products also made their debut in Vegas. HP's Bluetooth-enabled printers churned out several forests' worth of test documents, and 3Com launched a nifty pocket-sized $300 USB Bluetooth adaptor which moves any desktop or notebook PC (Windows or Mac) into the wireless era. The antenna separates from the USB knuckle so you can sit it nice and high for maximum range.




## FAST **FORWARD**

The Australian arrival of digital video recorders such as the famed Tivo remains on pause, but that hasn't stopped the US moving into fast-forward mode with Tivo's Series 2. It's smaller, lighter, performs better and is cheaper, of course — with two USB ports, an improved graphics engine for superior picture clarity, up to 60 hours of recording time and a price tag of US$399.




# MIRA IMAGE

**THE PC IS BUSTING OUTTA THE STUDY, AND VHS IS DEAD.**

Microsoft's "Windows Everywhere" strategy has gained extra momentum with the unveiling of two new technologies intended to pipe XP from the desk-bound PC to anywhere in the home.

At January's Consumer Electronics Show (CES) in Las Vegas, Bill Gates previewed "Mira" — a portable LCD pad with wireless connection back to your conventional Windows box — along with a new interface for tying XP's multimedia abilities into a large-screen monitor, codenamed "Freestyle".

Although they're still in beta development, both technologies are expected to be rolled into "Longhorn", Microsoft's cipher for the XP successor due in 2003. *APC* got a close-up look at prototypes which illustrate the Big M's headlong push into the connected household or eHome.

Mira is essentially a detachable but very smart flat-screen LCD monitor. You can unplug it from your PC and go walkabout using the built-in wireless networking (courtesy of 802.11 WiFi) and rechargeable battery. It has a low-power processor running Windows CE.NET, and enough memory and graphics grunt to run a remote connection to your Windows desktop.

The aim is to enable you to use Windows in a more relaxed environment — at the kitchen table or on the lounge, for instance. It differs from the Table PC concept in that Mira panels aren't standalone devices — they simply extend your current Windows session on to a remote screen.

Freestyle, on the other hand, lets you use Windows' digital audio, photo and video capabilities on a large screen, with a simplified interface, for what Microsoft calls a "lean back" experience. A remote control drives the PC. The first iteration is aimed at large-screen monitors and seems rather pointless, but the possibility of piping Windows on to a connected TV display is alluring, especially as the Freestyle demo also revealed a Tivo-like digital video recording facility.

There was plenty of evidence on the CES' crowded floors that the PC is at last ready to move beyond the study — our report on the hottest hardware of the show (see page 12) gives you a taste of what's in store.

The CES even looks set to eclipse the annual Comdex/Fall IT expo, as it equalled that celebrated geekfest in attendance numbers and outstripped it in floorspace.

Almost everything on show related to the PC in some way, from audio component systems with hard drives and MP3/WMA playback, to the Tivo 2 digital video recorder: smaller, lighter, better performance and cheaper, with two USB ports, an improved graphics engine for superior picture clarity, up to 60 hours recording time and a price tag of US$399.

Intel pulled something quite unexpected out of the hat with its demonstration of the made-for-mobiles Pentium 4 mobile chip, due the second half of this year.

We also met the folks behind M-Systems' DiskOnKey, the cool memory dongle of which *APC* remains so enamoured. After abasing ourselves with a "We're not worthy" routine, they revealed that the devices will extend to a huge 1GB capacity by year's end. Connection will be achieved via ultra-fast FireWire and USB2 and wireless Bluetooth technology. We'll take one of each!

What thrilled us the most was the march of recordable DVD for the lounge-room. As soon as these devices hit the AUD$999 mark, which could be as early as December, VHS is officially dead.

***David Flynn***

# BETA BITES

Retailers could have free rein to sell you software without first telling you it's a beta version, following a decision by the Fair Trading Tribunal.

The issue came to a head when Heather French bought an Echo Digital Audio "Layla" multitrack recording system in March 1999 from the Guitar Factory in Parramatta. It was to be the first step towards creating high-quality digital recordings of her music, which she had so far only performed live. The sales staff assured her the system was compatible with her Mac G3 if she downloaded the right drivers from the Net. But even with help from the Guitar Factory, the distributor Musiclink and a repair shop, she says the system wouldn't work properly.

She finally discovered the drivers for the system were beta models. Echo's documentation states: "The OMS driver included in this release is considered to be a beta driver. Some users have had problems with machines running slowly and/or locking up while using midi output . . . we are working to resolve this problem." Eighteen months had passed and Guitar Factory refused her a refund.

Convinced she had been misled, she took Guitar Factory to the Fair Trading Tribunal. The adjudicator found the system was not fit for the purpose sold and ordered Guitar Factory to return her $1,970. However, Guitar Factory appealed and she lost. "I'm just flabbergasted," she said.

Guitar Factory Manger Darren Hall said the unit "worked fine", and would not be drawn on the issue of the beta software. "We only sell stuff that works. It worked and that's why she lost the case."

*APC* contacted Echo in California and spoke to international technical sales manager Marcel Mauceri, who confirmed the software was in beta release when French bought her system. He said Echo relies on distributors and retailers to deal with customers. "We have a special Web site which has up-to-date information for distributors. We're pretty clear on what our products can and can't do," he said. "We make sure international distributors communicate that to customers."

The box clearly states that the system is for PCs and French says she relied on the advice of the retailer that it would work on her Mac. Mauceri added that he expected the person who sold the product to be knowledgeable about what they were selling. No-one from Musiclink was available for comment, although Mauceri said he would raise the case with staff from the Melbourne musical equipment distributor.

*APC* asked the Department of Fair Trading whether it was acceptable for retailers to sell beta software without telling consumers. A spokesperson said all goods must fulfil three criteria: they must be of merchantable quality, be fit for the purpose sold and match the description given. He said there is no provision that specifically prevents a retailer secretly selling beta software.

French sent the department a statement explaining the nature of beta software from Geoff Oakley, manager of computing facilities at the UNSW School of Computer Science: "Alpha software is still in early stages of development with little or no functionality; beta software is working sufficiently that it can be tested by experienced users for the purpose of finding and resolving 'bugs'. Occasionally there is a gamma release of software for a final testing phase. Generally, any Greek-letter release is a pre-publication test release for in-house testing or for testing by experienced users."

The adjudicator who overturned the tribunal's original decision said French had lost her right to return the product after such a long delay (French says she was travelling overseas and placed the system in storage). The case has cost French dearly. Her dreams of recording her own songs are in ruins after spending so much time and money, and suffering so much heartache. Still angry, she plans to appeal: "I really feel this is an injustice."

***Fiona Angus***

# ONE GOOD IDEA

AND A DIGITAL VIDEO CAMERA IS ALL YOU NEED TO MAKE IT BIG IN THE MOVIES.

Holding an amateur movie screening night for friends turned John Polson into a Hollywood actor (*Mission Impossible II*) and kick-started one of the biggest short film festivals in the world. "All you need is a digital video camera, a few mates and a good idea," said Tropfest festival executive director Simon Lock. Pull it off and your film will open to a crowd of 100,000, a TV audience of 1.2 million, be Webcast by Telstra and judged by the likes of Kevin Spacey and Keanu Reeves. "We get entries from people who've grabbed their Canon and done a simple edit on their PC, right through to film-makers hoping to engage a contract," he said. A record 611 entries are vying for a place on the final screening night (Sydney and Melbourne, 24 February).

***Fiona Angus***

*Last year's Tropfest winner Patrick Hughes lands his first professional film contract.*

## MISSING: 541 NOTEBOOKS

Commonwealth bureaucrats managed to lose or steal 541 notebooks last year. Sheepish staff fessed up at the request of Shadow Information Technology Minister, Senator Kate Lundy. "The worst admitted loss and theft of laptops in 2000 to 2001 was Telstra, which misplaced 170 and had 187 stolen, costing $645,000," she said in a statement. The figure could be much higher, with four major departments (including the previously slippery-fingered Department of Defence) refusing to come clean for the survey. Only two reports of theft out of 355 resulted in convictions.

*Notebooks: too portable for their own good?*

## THE 'I's HAVE IT

Apple Australia has opened up the new iMac to iPrimus. The ISP is now the exclusive Australian Internet service provider listed in Apple's Internet Setup Software. The deal coincided with the launch of the new iMac in Sydney and the announcement that OS X is now the default operating system on new Macs (OS 9 still comes preinstalled). Mac users will get red-carpet treatment from iPrimus, which is running a Mac customer service hotline. The deal mirrors a similar longstanding agreement with Earthlink in the US.

# ACTIVATION ANGST

**LAWFUL WINDOWS XP USERS ARE GETTING THE THIRD DEGREE FROM MICROSOFT'S ANTI-PIRACY ZEALOTS**

Remember when Microsoft said Windows Product Activation would be easy? The company now admits that its new anti-piracy measures, which block lawful users from reinstalling Windows XP without asking first, may not be a "positive" experience. The admission came after zealous Microsoft staff gave Tim Pienaar of Brisbane the third degree before they let him transfer his copy of Windows XP to his new PC.

A month after Pienaar installed Windows XP Professional, he upgraded most of the components in his PC. When he tried to reboot, he was confronted with a demand for a new code and could go no further.

"I phoned Microsoft thinking it would be a five-minute exercise to get another code," he said. "I ended up spending at least 30 minutes just trying to convince them to give me a new activation code," he said. He had to explain the hardware changes several times, and keep promising that he wasn't going to continue to use XP on his old PC. "It was just unbelievable. They were virtually saying that I had 'used up' my activation code."

The director of Microsoft Product Support, Hugh Jones, said that Windows Product Activation is a new technology and they're still working on "streamlining" the process. "We have found that

*Tim Pienaar after a Product Activation XPerience*

our customers have generally had a positive experience when activating a product for the first time. However, when they are reactivating the product as Mr Pienaar has, their experience has not been as positive as we would like."

Each person's request for a new code is individually assessed. "Part of this process is ascertaining the legitimacy of the request, as there is no specified limit to how many times a product can be reactivated. We acknowledge that during this time, some customers may encounter delays, and we apologise for this."

He pointed out that although some call times have blown out, the average reactivation request takes between five and 10 minutes. Pienaar is a Microsoft-certified IT professional, so he knew his rights and stood his ground. Eventually he was graced with another code — almost 45 minutes later.

Jones has a message for *APC* readers: "We hope that by receiving your feedback we can improve this service so that your fellow *APC* readers will have a better experience."

Tell us how it was for you at **epinions@apcmag.com**.

***Fiona Angus***

# PLAYSTATION POUNDS XBOX

Sony has wiped the floor with Microsoft in the first round of the great gaming console prize fight. Sony sold 2.5 million Playstations during the Christmas retail stampede in the US, while Microsoft flogged 1.5 million Xboxes. How did they perform globally? Five million Playstations were sold around the world, including 110,000 in Australia.

However, gaming consoles ran second to the all-conquering PC in overall games sales last year. More Australians bought games for their PCs than for any other platform, according to research firm Inform.

*Xbox gets thumped, whacked and powed*

The PC platform beat reigning champion Playstation to score 38% of all games sales. First-generation Playstation games came in next at 28%, and Sony scored a total of 39% of the market, including Playstation 2. Round two starts this month when Xbox hits shelves in Australia and Europe.

***Fiona Angus***

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| Plus $275/yr | | 20 MB | 15 | u | • | L/NT | • | | • | • | | | | | | • | • | 1 GB |
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## *Comparison with other web hosters as taken from their websites on 24 January 2002*

### Entry Level Personal Packages

| Company | ilisys | Ozhosting | Commander | Net Registry |
|---|---|---|---|---|
| Package | basic | Standard | Bronze | The Promoter |
| Server space | 20 MB | 20 MB | 20 MB | 35 MB |
| Monthly transfers | 1 GB | 1 GB | 500 MB | 1 GB |
| Set up fee | - | $53 | $59 | $99 |
| Domain name fee | $40 | $105 | $66 | $110 |
| Annual cost | $199 | $328 | $370 | $396 |
| Total including GST. | $239 | $486 | $495 | $605 |

### Entry Level Enterprise Packages

| Company | ilisys | Telstra | Ozhosting | Commander | Net Registry |
|---|---|---|---|---|---|
| Package | Standard | Economy | Custom | Silver | The Marketeer |
| Server space | 100MB | 80MB | 100MB | 70 GB | 50MB |
| Monthly transfers | 2 GB | 500MB | 1 GB | 750 MB | 1.5 GB |
| Set up fee | - | $89 | $53 | $89 | $99 |
| Domain name fee | - | $165 | $105 | $66 | $110 |
| Annual cost | $489 | $659 | $768 | $590 | $660 |
| Total including GST. | $489 | $913 | $926 | $745 | $869 |

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## INFECTED IN A FLASH

Computer viruses are mutating and finding new ways to slay your system. Until now, keeping your PC a Microsoft-free zone was the best defence against most viruses. Now a harmless-looking Flash (SWF) file has been diagnosed with a completely new form of virus. Flash is the dominant format for Web animation and the discovery has developers terrified that people will be too scared to watch their films. The SWF/LFM-926 virus lies dormant in Flash files hosted on Web pages until you download and play the file from your desktop. Antivirus firm Sophos says the effects of the virus are relatively mild.

## NEW LOWS

Take another look at your Telstra BigPond bill. Australia's largest Internet service provider has raised prices for broadband and dialup subscribers. Some cable users will pay an extra $21 per month, while 1 million dialup subscribers will be given a choice of keeping their current $24.95 per month plan only if they sign a 12-month contract. And watch out: there are hefty penalties if you try to back out. The fine print on the new ultra-cheap plans (starting from $5.95 per month for dialup and $54.95 per month for cable) also contains customer support restrictions. Telstra claims it's moving to a "pay for what you need" system.

# PAYBACK TIME

Sluggish download speeds, drop-outs, busy signals and verbal abuse — sound like an ISP you know? There's hope for exasperated dialup users, after the Australian Competition and Consumer Commission (ACCC) took legal action against Brisbane company Dataline, which sells Internet network access to smaller ISPs around Australia. Here's a list of the ACCC's allegations :

- Constant busy signals and drop-outs
- Slow connection speeds
- Intercepting and blocking customer emails
- Verbally abusing customers over the phone
- Changing Web sites of smaller ISPs so they direct traffic to Australis, an ISP related to Dataline
- Pressuring smaller ISPs to enter their customers' credit card details into a central database
- Misleading subscribers about the services to conceal Dataline's responsibility for the poor quality of service

The ACCC says it's all designed to help Dataline tempt subscribers away from the smaller ISPs they provide bandwidth to, and pass them on to Australis. Dataline chief executive John Russell said the allegations are all lies and have been made to the ACCC by a "small group of businesses" which have commercial disputes with them. "Dataline's intention has always been to help ISP businesses and there are many ISPs utilising our services who will bear witness to these facts," he said in a statement. *APC* asked Russell to name these businesses, but he declined. "If it goes to trial we will be vindicated," he told us.

***Fiona Angus***

# THE NAME'S BOND: JAMES.BOND.NAME

Cathy Freeman has one, and Bill Gates was among the first to secure his, but you're probably like Steve Jobs and Prince Charles, who just haven't bothered yet.

What are you missing out on? A .name.

Even Einstein seems to have staked a claim on his .name, not to mention James Bond. The new domain space creates a single online persona for all your email and Web addresses — for instance, James.Bond.name (and the email address James@Bond.name).

It's the first domain space designed for individuals, and a chance to create a lifelong online identity, said Paul Perrett, manager of new domains at registrar MelbourneIT. "Over time, the .name concept will become your online identifier. The idea is to have one, unique online identity for life." In the future, he said your .name will be able to map to your home phone and other types of digital devices.

Until then, Perrett said a .name gives everyone the chance to establish an "email address for life". MelbourneIT provides email forwarding to and from every new .name it registers, so you can link all your accounts to a central address (and stop giving your ISP free advertising).

.name is the third in a group of seven new top-level domains to be introduced to the Web since 1988. The much earlier Australian domain created for individuals, id.au, was a huge flop. However, according to Perrett, "thousands" of

*Bond models Tie@TooShort.name*

Australians raced to put their .name online in the pre-registration phase that began in January (real-time registrations begin at the end of March and cost about $70 for a year). You can also keep your eye on all the name-calling by subscribing to NameWatch, a service which alerts you when someone registers a name that's similar to yours.

You can register nicknames and character names in the .name space (Jesus.Christ.name and Santa.Claus.name aren't for sale), but Perrett warns that .names are subject to the same trademark dispute resolution procedures that apply to every other domain. So although it's possible to register Luke Skywalker (he's still up for grabs), George Lucas would almost certainly wrestle back it from you.

***Fiona Angus***

**Finished**

**Not quite**

# The easy way to save unfinished business is on a Zip®.

Distributing or archiving valuable work on CDs is fine, once your projects are completed. However, constantly burning CDs while you're still working on your documents is a slow and tedious process that also burns time and money. This is why you should use Zip®. A Zip drive is the quickest and easiest way to save and back up all versions of your work whenever you feel the need to. It means that valuable projects that are on-going are safe from disasters like system crashes, virus attack or wrong versions being saved. Once safely stored on your reliable 100MB or 250MB Zip disks, your precious work-in-progress can easily be retrieved or moved back and forth between colleagues. To check out Iomega's range of Zip drives call your local computer retailer, visit www.iomega.com or call 1800 IOMEGA.

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iomega®

## SANTA SAVES

Finally, some good news about the PC market. Shipments in late 2001 were up 78% on the previous three months, and were 6% better than the same period in late 2000. Excitement about Windows XP and new Intel chipsets was probably the cause, lifting computer sales after a terrible year for PC vendors. Still, it's not all good news; the forecast is for a 4% drop in worldwide PC sales for the first quarter this year.

## I CAN'T DO THAT DAVE

Remember HAL, the creepy computer from *2001: A Space Odyssey* that could eavesdrop on humans by reading their lips? Now IBM researchers want to create something similar: a computer that recognises human speech flawlessly. Within 10 years IBM wants computers to recognise up to 20 languages, as well as understand accents and other quirks of speech.

## I WANT MY DVD!

The number-one Aussie pastime might one day be DVD-watching if current trends are anything to go by. Sales of DVD machines are expected to overtake VCRs in Australia for the first time this year. Microsoft is jumping on the bandwagon by allowing some new DVD players to play CDs and DVDs encoded with the Windows Media Format.

# LAW & ORDER
## WORLD WIDE WEB

**THE BALANCE BETWEEN EFFECTIVE CRIMINAL INVESTIGATION AND RESPECT FOR INDIVIDUAL RIGHTS RESTS ON A KNIFE-EDGE.**

On one side are Australia's federal and state governments, its national law enforcement agencies, its state police forces and its international obligations post-September 11. Lining up on the other side are local privacy organisations and Internet advocacy groups.

Those in the corridors of power claim that the twin goals of security and privacy can coexist peacefully, but Netizens say that a gradual erosion of our civil liberties has already begun.

The committee investigating the controversial NSW Internet Content Legislation is now calling for submissions, and has set 7 June as the deadline for its final report. Electronic Frontiers Australia (EFA), the Internet Industry Association (IIA) and consumer groups want substantial amendments to the proposed laws. Similar legislation in South Australia has been stalled indefinitely.

The Federal government's *Cybercrime Act* (which came into effect last December) gives police new powers to search computer networks and force individuals to reveal information. New offences covered by the act include tampering with electronic communications and unauthorised use of a computer with the intent to commit a crime.

Last year, the Parliamentary Joint Committee on the National Crime Authority issued a report on its findings on the law enforcement implications of new technology. The most controversial of its recommendations was for new laws to make Australian ISPs keep transaction logs of all user activities. Other recommendations included new national electronic surveillance legislation and the establishment of a national cyber-forensic unit.

Internet user groups are horrified. "The measures proposed are indiscriminate and not effectively targeted at criminals, with the result that they will undermine the confidence of honest Internet users in the safety, security and privacy that they should have when they use the Internet," said EFA chairman, Greg Taylor.

*'Freeze, or I'll come into focus.'*

Australia is also not immune to shifts in legislation in places like Washington, London and Brussels. The US has effectively appointed itself the world's Internet police officer by giving its Justice Department the power to prosecute foreign hackers even if they are not attacking American computers.

Critics say this change forces American values on to the rest of the world, since prosecutions can occur if any part of a crime takes place within US borders, and a large proportion of the world's Net traffic travels through hubs in Virginia and California. American legal experts say the new law means the sender of a pornographic email from Melbourne to London could be extradited and, using Virginia's standards for obscenity, prosecuted for breaking Virginia law.

As a result, such laws are changing rapidly around the world. Late last year, the US, Canada, Japan, South Africa and 29 other nations from the Council of Europe (COE) signed a treaty called the Convention on Cybercrime to standardise procedures for policing the Internet. The treaty has attracted criticism from civil liberties groups, which are concerned that it could create an international electronic surveillance network, or global "Big Brother".

However, that's exactly what most law enforcement agencies believe they need just to keep up with the crooks and the growing list of cybercrimes.

***Darren Horrigan***

BRO33891/APC

Laser flatbed digital copier

Laser fax

Flatbed colour scanner

Laser printer

PC fax

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## (No, that's not a typo.)

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# POWER FOR THE PEOPLE

**PALM OS DEVICES HAVE ALWAYS BEEN SIMPLE, FAST AND SLEEK COMPARED TO WINDOWS CE MACHINES. THE NEWEST ADDITION TO THE PALM FAMILY HAS ALL THE EXTRAS YOU USED TO NEED WINDOWS FOR, BACKED UP BY SOME MIGHTY POWERFUL SPECS.**

*By Matt Overington*

Initially bogged down by slow processors, a kludgy operating system and slow response times, Windows CE machines have had only one advantage over Palms: good multimedia capabilities. Because the Palm has a business orientation and low hardware specs, multimedia performance was never a priority. Palm devices have always followed the "less is more" philosophy by providing basic features at a low cost.

Well, not any more. The Sony Clié is a departure for Palm devices because it offers plenty of multimedia options. It combines the benefits of the early Palms with the capabilities of some of the sleeker, flashier Windows devices running Pocket PC 2002.

# Sony Clié PEG-T615C/G

**Contact** Sony
**Online** www.sony.com.au
**Phone** 1300 137 669
**Price** $949
**Verdict** ▮▮▮▮

The Sony Clié PEG-T615C/G is the first Palm-based handheld device to feature a backlit high-resolution colour screen and 16MB of RAM. The Handspring Visor Pro was the first 16MB Palm-based handheld when it came onto the market in October last year, but the screen on the Clié makes the Visor look antiquated.

Aimed at business executives, young professionals and the usual range of early adopters, the Clié is a real powerhouse for a Palm-based machine, and can almost compete toe-to-toe with Windows Pocket PC devices. The backlight gives much clearer graphics, and is also brighter than the conventional reflective designs of its predecessors. Owing largely to the 16MB of RAM (15MB is free during operation), the Clié zips along, and can run many large applications at once.

At the heart of the Clié is a 33MHz Motorola DragonBall processor, which is more or less standard to Palm devices. It also has 4MB of Flash ROM, which holds the core operating system and the application suite. Unlike handhelds that use conventional ROM, such as the Handspring Visor, the Clié can be upgraded by quickly applying patches to the Flash ROM. This means that future operating system upgrades can take advantage of the Clié's architecture.

One of the Clié's biggest advantages over other Palm-based handhelds is its screen. At 320 x 320 pixels with 16-bit colour, it has four times the resolution of other Palm-based devices. As a result, Palm OS applications look better on the Clié than on any Palm device on the market.

To take advantage of the screen resolution, Sony has included a High Resolution Assist option that enables the use of high-resolution fonts on existing Palm-based applications. Unfortunately, despite the Clié's impressive specs, the high-resolution fonts require more memory than conventional ones, and running them can sometimes bog the OS down. Also, some programs don't work too well with this option — the graphics end up distorted. If the display malfunctions, you can disable the High Resolution Assist option and the screen will revert back to normal.

Because Sony sees the Clié as a business and multimedia device, the company's marketing droids have dubbed it a Personal Entertainment Organiser (PEO) instead of a PDA. A number of add-ons are available, including a headphone kit and digital camera to help you make the most of the Clié's extra memory and high screen resolution.

Sony has also included a number of software applications with a heavy multimedia focus, the most impressive being gMovie (a handheld video player) and Picture Gear Pocket, which acts as a scaling image viewer. Using a Memory Stick, you can use your Clié to browse the images from your digital camera.

The Clié comes with Windows software, but you can also download and install Palm Desktop software for the Macintosh, if you want basic syncing functions. However, using this approach means that the extra multimedia add-ons specific to the Clié will not work.

Although the Clié range of PDAs has been available overseas for a while, the T615C/G is the first model that can be purchased in Australia. Initially, Sony had intended to release the PDAs onto the local market around the middle of 2002, but the level of demand suggested by the large amount of people calling Sony Australia to ask where they could get one prompted the early release of the T615C/G. The complete collection, including a version with higher specs, and a black-and-white version of the T615C/G, is scheduled for release around the middle of the year. ■

## CLIÉ EXTRAS

### CLIÉ AUDIO ADAPTOR

Fill up your Memory Sticks with MP3s and throw your Walkman away! One of the strongest selling points for the Clié is its multimedia capability, but bear in mind that you have to buy the Clié Audio Adaptor to unleash its potential. You can turn the handheld into a MP3 player, and enable stereo audio output from gMovie, Sony's handheld movie player.

### CLIÉ CAMERA MODULE

You've listened to music all the way to where you have to go — and of course you'll want to take some pictures when you get there. The Memory Stick Camera Module bears a passing resemblance to the Sony Vaio camera, and captures colour images in a resolution of 320 x 240 pixels before storing them in available memory.

# LIFE PARTNER

ITS DEFINITELY BIG IN JAPAN, BUT CAN FUJITSU TAKE ITS FLAGSHIP NOTEBOOK TO THE TOP OF THE WORLD SCENE? *By Justin Kranzl*

The E-6666 is the big kahuna of the E-series. Its hefty 512MB of memory and Pentium III-M 1.2GHz mobile CPU runs Windows XP Home Edition (included) with ease. However, quite a few competitors offer similar specifications at this price, so what has Fujitsu included to distinguish the E-6666 from the rest?

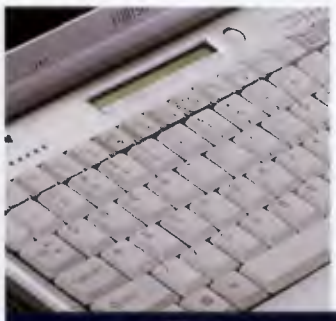
To begin with, it has elegant styling and a refined magnesium alloy finish — it looks like the sleek professional's tool it is meant to be. An increasingly standard 30GB hard disk offers ample space for using the notebook as a shared resource or storing lots of data. Just as useful, the E-6666 is a touch over 2.5kg at minimum weight, meaning it can be carried around with ease. It's not a lightweight, but compared with other machines of similar power, it's very slight. The design emphasis for this machine is on class-equalling performance and reliability rather than featherlight technology. This is reflected in the results of the benchmark tests we ran (which can be found on this month's CD set).

Attention has been paid to keeping mobile users working longer, so battery life clocks in at a respectable three hours plus. As the E-6666 allows you to hot-swap a new battery in a different bay, your running time is extended even further.

It's not all good news, however. Used out of the carry bag and on the move, parts of the underside (not the battery pack) create the feeling that a minor thermonuclear meltdown is occurring in your lap. No matter how elegant the fascia, this makes exploiting that long uptime a potentially uncomfortable proposition. Also, at 14in, the screen is slightly smaller than that of some class rivals.

The peripheral and communication capacity of the E-6666 is well in line with what consumers expect of a high-end notebook — it has built-in LAN and dialup modem capacity. There's a standard suite of serial and parallel options, as well as two USB slots. The E-6666's keypad entry security mode can't stop thieves running off with your notebook, but the information on the hard drive won't be going anywhere unless they have the right code.

Fujitsu's E-6666 is definitely worth a look, as its performance and price place it among the market leaders. Its design philosophy offers a solid, consistent product, rather than groundbreaking excellence in some areas at the expense of others. The big question for buyers is whether they really need all the power on offer here, or whether a lower spec machine with a more modest price tag will suffice. The E-6666's performance, however, does justify its price. ■



***Contact*** Fujitsu
***Phone*** 1800 288 283
***Online*** www.lifebook.com.au
***Price*** $8,299
***Verdict*** ▮▮▮▮

# I can...

**Reduced operating costs.**
**A Super Economy mode vastly improves operating economy without the definition sacrifices common to so many draft modes. It effectively quadruples output from both the black and colour cartridges.[1]**

# ...fit even the tightest budget.

**Superior photographic reproduction.**
The optional PhotoRealism™ cartridge uses low-density inks to vary colour saturation per dot to increase the colour combinations, reduce grain and smooth tones.

*PhotoRealism produces colours between colours.*

**Brilliant plain paper photo quality, automatically.**
A selectable function called Photo Optimiser is included in the printer control software. It automatically adjusts for defects in exposure, highlights and shadows, and prints accordingly with standard inks designed to optimise quality on low-cost plain paper.

*Before.*

*After.*

## BJC™-1000SP
colour Bubble Jet™ printer

STOP PRESS! NOW... $99 RRP

**High quality blacks at high speed.**
The optional high capacity black ink cartridge uses 64 print nozzles for high print speeds. The selectable text smoothing mode goes up to 720 dpi to maximise text quality.

*Optional BC-03 black ink cartridge.*

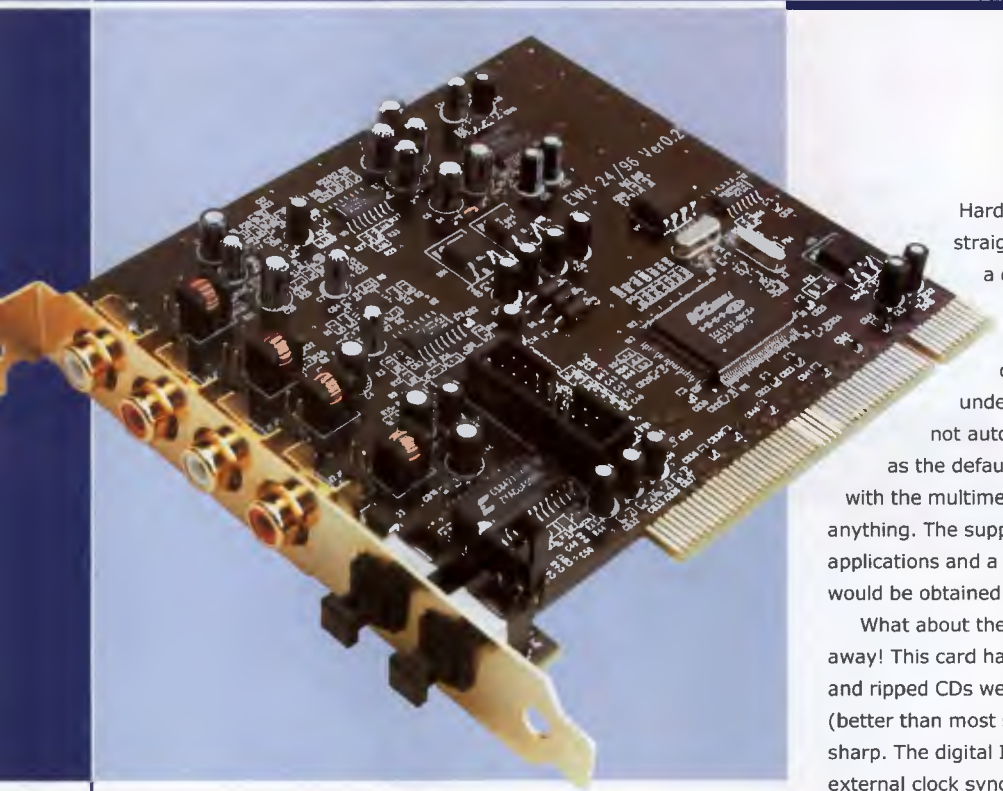
3-YEAR WARRANTY OPTION

*Canon Customer Care. The one-year warranty is upgradeable to three years for a minimal charge, and is backed by Customer Care hot-line support. For more information call 1800 021 167.*

You can...

**Canon**

Price shown is recommended retail price including GST. Canon® and the Canon logo are registered trademarks, and Bubble Jet, BJC and PhotoRealism are trademarks of Canon Inc. 1. Capacity for colour based on A4 pages at 7.5% coverage. Capacity for black & white based on A4 pages at 5% coverage per page. Specifications are subject to change without notice. Canon Australia Pty Ltd ABN 66 005 002 951.
CS0855



# LISTEN UP

**STEP UP TO A PROFESSIONAL-QUALITY SOUNDCARD AND HEAR THE DIFFERENCE. THE NEW TERRATEC SOUNDCARD MUST BE HEARD TO BE BELIEVED.** ***By David Neiger***

If you are serious about digital audio mastering and don't care much for playing games, the Terratec EWX 24/96 soundcard may be to your liking.

As the rather poorly translated manual says, "The AudioSystem does without all the multimedia 'whoopla' like 3D-Sound, Wavetable sound-sets or connecters for (frequency) distorting CD audio cables." In other words, don't buy this card unless you want a high-end digital audio system, because it doesn't directly support wavetable or midi music.

The specs are impressive for a mastering card: true 24-bit 96KHz A-D converters (for playback and recording), an almost flat frequency response curve, a low noise floor (claimed to be under –110dB), low THD, switchable analog ports (with separate left and right RCA connectors) and SPDIF optical digital ports.

For the best level of performance you need a very quiet computer and good-quality shielded cables. Unfortunately, the PC we tested on was not up to scratch — a constant buzz and electrical interference was audible every time we used the keyboard. No doubt a better quality PC (with as few peripherals as possible) would have produced better results.

Hardware installation of the card was fairly straightforward. However, software installation was a different story. Installing the soundcard control panel (which is used to control the card instead of the standard Windows volume control) was quite complicated. The card is plug-and-play under Windows 9x and 2000, but the drivers do not automatically configure Windows to use the card as the default, thus requiring several minutes of tinkering with the multimedia control panel applet before you can hear anything. The supplied software includes several "lite" digital audio applications and a bundle of useful shareware, although best results would be obtained with software such as Cool Edit Pro.

What about the sound? Well, it's fair to say we were blown away! This card has the best digital sound we've ever heard. MP3s and ripped CDs were cleaner and clearer than we thought possible (better than most stereos) and analog recordings were just as sharp. The digital I/O ports have all the pro features, including external clock synchronisation and full control over the copyright control bits, allowing you to determine whether the premastered output can be copied on consumer digital equipment.

There is no comparison between this card and a consumer-grade soundcard since this card does not resample sounds to fit in with the often preset frequency of the consumer-grade cards. The clock frequencies are adjustable and can be internally generated or synchronised to external equipment, ensuring jitter-free recordings to and from digital audio devices such as MiniDisc or ADAT. However, without onboard resampling, the card can only process simultaneous digital audio streams if they are recorded at the same frequency.

Nevertheless, if you are serious about digital audio production, give the Terratec EWX 24/96 a spin. You won't be disappointed. ■

***Contact*** Major Music Wholesale
***Phone*** (02) 9545 3540
***Online*** www.majormusic.com.au
***Price*** $599
***Verdict***

# I can...

**Exceptional results, easily.**
The inks are optimised for plain paper. Quality can be automatically enhanced with Drop Modulation Technology™ with variable drop sizes. These are placed in any of five combinations to smooth colour gradations and improve tonal quality.

## ...get exceptional quality, very affordably.

**Better internet images, special effects.**
Image Optimiser can automatically "correct" low-resolution Internet images up to the printer's maximum resolution. Turn photos into simulated illustrations and create sepia hues, print banners up to 6 A4 pages long, overheads and even T-shirt transfers.

**Duplexing, high speed blacks.**
The driver allows manual duplex. For B&W only, an optional dedicated black ink cartridge with 128 print nozzles offers print speeds up to 5 pages per minute.[1]

**Reduced operating costs.**
Super Economy mode improves operating economy without the definition sacrifices common to many draft modes. It effectively quadruples output from both the black and colour cartridges.[3]

**5 times the colour.**
Optional PhotoRealism™ inks vary the saturation per dot. This produces up to five times as many colour combinations as conventional CMYK inks for better half-tones and less grain.

*PhotoRealism produces colours between colours.*

# BJC™-2100SP
colour Bubble Jet™ printer

Built-in parallel and USB interfaces for Windows and Mac.[2]

USB

Optional scanner cartridge captures colour photos with resolutions up to 360 dpi.

STOP PRESS! NOW... $129 RRP

**Automatic Image Improvement.**
Advanced colour routines help define half-tones. Photo Optimiser automatically adjusts for defects in exposure, highlights and shadows and prints accordingly.

3-YEAR WARRANTY OPTION

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You can...

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# BURN THE FLOOR

**TO TAKE FULL ADVANTAGE OF YOUR CD-RW DRIVE YOU NEED A DEDICATED BURNING APPLICATION THAT CAN HELP YOU TURN OUT HIGH-QUALITY DISCS.** *By Matt Overington*

The integration of CD-burning tools into Windows XP was a welcome addition for many users who wanted to be able to create simple data or audio CDs. The Windows XP CD creation software has many limitations, however, and a dedicated burning application is required if you want to take full advantage of the myriad features your CD-RW drive can cope with. Using an application like CD-Maker 2000, you are able to duplicate CDs verbatim, create video CDs (VCDs), mixed-mode (data and audio) CDs, bootable CDs, and CDs that can be read by a range of different operating systems. You also have advanced control over rewriteable discs.

As with most CD-creation applications, a split-screen menu system is employed for the file selection screen, and files can be dragged and dropped into the appropriate box. The files that are visible when you browse the file system will vary depending on the type of CD you're creating. If it's an audio CD, you are able to browse the hard disk for audio files in various formats (MP3, WAV, AU, but notably not Windows Media), and drop them into the CD layout box, where they are added to the CD track list. If you are creating a VCD, you search for MPEG-1 video files. Basic options such as CD duplication and recording to and from ISO images are also included. People familiar with the Nero burning applications will feel at home with CD-Maker 2000.

The context-sensitive help menu really shines. It provides detailed instructions to beginners at each step of the CD creation process if called upon, but advanced users aren't annoyed by colourful animated cartoons — the help is unobtrusive.

CD-Maker's handling of audio files is extremely powerful. Encoding and decoding software is included, so you can pull audio data from CDs and convert it to WAV or MP3, and then convert it back to CDDA. When you are burning audio CDs, ambient clicking, popping and hissing is reduced by filters that examine the audio that is being recorded to the CD as it is read from the hard disk.

A built-in recorder allows you to record directly from an external audio source to a CD (either via the microphone or line-in ports on the PC). This means that you can record speeches or live audio recordings, or even convert your entire record collection to CD. This is only possible if you have a burner that is capable of burning in real time (or at single speed), and surprisingly, not all the drives on the market can do this. If you're interested in buying CD-Maker 2000 for this purpose, you'd be best off checking your drive manufacturer's Web site beforehand to confirm that it's able to run at single speed.

CD-Maker is a useful tool to complement your burner, and it provides a good extension to the basic CD creation features bundled with Windows XP. Context-sensitive help, a jewel-case designer and a wide range of output CD types, all help make CD-Maker one of the best burning applications we've seen. ■

*A drag-and-drop interface is incorporated for file selection for most types of CD.*

***Contact*** Marketing Results
***Phone*** (02) 9899 5888
***Online*** www.ntius.com
***Price*** $99.95
***Verdict*** ▮▮▮▮

# I can...

**Push button simplicity.**
**Three scan buttons activate ScanGear Toolbox CS (the scanner control software). It lets you select functions and the final destination of your scan such as colour printout (copy), e-mail program, fax, or others.[1]**

## ...scan up to 600 x 1200 dpi, with each of these scanners.

**Patented LIDE™ technology.**
Both scanners deliver optical resolution up to 600 x 1200 dpi, while the universal TWAIN driver offers enhanced resolution up to 9600 dpi.

LIDE LED Indirect Exposure

**An improved 48-bit input process.**
Offers excellent colour fidelity, and creates images with smoother gradations as well as a greater amount of shadow and highlight detail.

48 bit input

**Plug 'n play USB for Windows and Mac.**
The USB interface is compatible with Windows 98/Me/2000 and Mac OS 8.5 or higher.[2] And, because the scanner is powered directly through the USB cable, it does not need a separate AC cable.

USB

**Edit and store photos easily.**
ArcSoft PhotoStudio 2000 is an easy-to-use image editor, and ArcSoft PhotoBase creates photo databases. Electronic manuals for Windows and Mac are included.

## CanoScan™ N 676U
Just $209 RRP

*You can also stand up the unit to make room on your desk, and still use it to scan at any time, taking colour scanning to a new level of quality and convenience.*

## CanoScan™ N 670U
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**"Z-lid" simplifies book scanning.**
This special lid simplifies book scanning and OCR with the bundled Caere OmniPage Pro[3] converting scanned text into editable data.

*Canon Customer Care. The one-year warranty is upgradeable to three years for a minimal charge, and is backed by Customer Care hot-line support. For more information call 1800 021 167.*

3-YEAR WARRANTY OPTION

You can...

**Canon**

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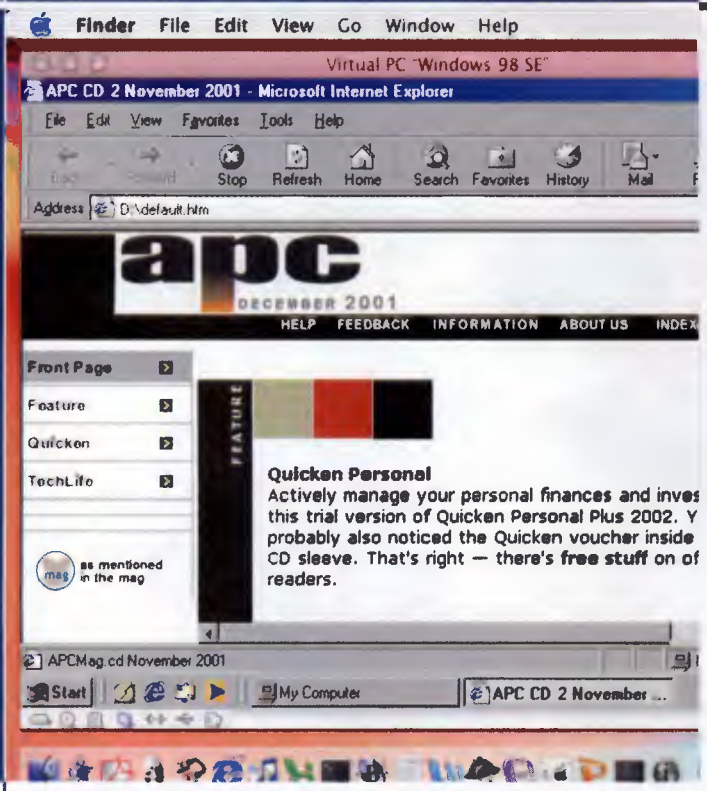
CS0908




# VIRTUAL WINDOZE

**VIRTUAL PC 5 WILL ENABLE YOU TO RUN WINDOWS ON YOUR MAC — JUST VERY, VERY SLOWLY.**

*By Steve Noble*

While most Mac users are best off running only Mac software, there is a minority who really must use a particular MS-DOS or Windows program. For these people one question is paramount: how does the Windows emulator Virtual PC 5 perform? The answer, unfortunately, is very slowly.

In my testing, lightweight programs performed adequately on an iBook running Mac OS X, but using them was tedious. Three ways to make small improvements to the Virtual PC experience are: add RAM to the iBook, restart in Mac OS 9.2, and trade in the iBook for a twin-processor Power Mac G4. However, Virtual PC still ran like molasses.

Apart from its speed, Virtual PC is flexible and well designed. For instance, it can use the same IP address and Internet connection as the Mac, or you can allocate them each a different IP address.

You can also create multiple emulated PCs, each running a different version of Windows. The only limitation is RAM — set aside at least 128MB for each emulated computer.

You can access your Mac's hard disk from the emulated PC using Windows Explorer or any application's open and save dialog. However, your Mac programs and Finder cannot browse the emulated PC hard disk in the same way. You can copy and paste and drag and drop between Mac OS and the emulated PCs, but I found this unreliable.

When you close an emulated Windows environment you can choose to save its "state", which means you do not have to boot Windows again next time you use that environment.

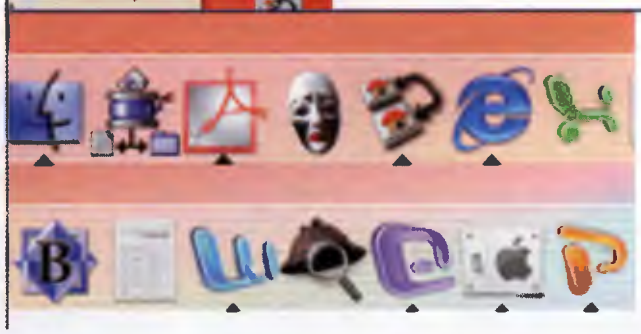
USB devices can be used with Virtual PC, but you must configure the software for every peripheral. Virtual PC does not yet support FireWire devices and its Airport support is patchy.

You can use AppleScript to automate Virtual PC. However, the sample AppleScripts that Virtual PC's help system said would be on the Connectix site were missing at the time of writing. What's more, Virtual PC is not recordable, which means you have to write your AppleScripts by hand.

When used in a basic way with simple software, Virtual PC was reliable enough, but as soon as I tried to do anything interesting, it choked. It caused four separate kernel panics when I changed network settings in Mac OS X. Kernel panics are catastrophic system failures that can bring down Mac OS X, but they are so rare that I'd previously only experienced them using beta software.

If you run Mac OS 9.2 or OS X on a G3 or G4-based Mac with at least 256MB of RAM, and need a lightweight, well-behaved MS-DOS or Windows program that cannot be replaced in any other way, it's worth giving the Virtual PC demo a go. If this doesn't sound like you, stick to using Macintosh software, consider the alternative Windows-via-Mac solutions from Netopia or Citrix, or just buy a PC. ■

***Contact*** Firmware Design
***Phone*** 1300 365 591
***Online*** www.connectix.com
***Price*** $739 (with XP or 2000 Pro); $609 (with 98); $296 (with DOS); $235 (upgrade)
***Verdict***



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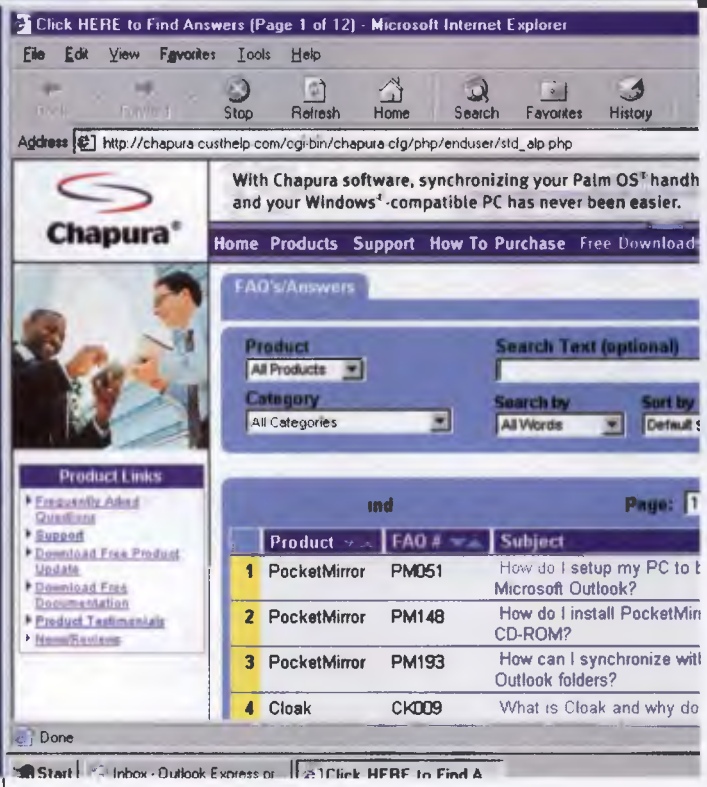



# ON REFLECTION

TO SYNCHRONISE OUTLOOK INFORMATION USING A FUSS-FREE AND EASY-TO-UNDERSTAND APPLICATION, YOU CAN'T GO PAST POCKETMIRROR. *By Clem Roberts*

PocketMirror keeps your Outlook information, with the exception of email, synchronised with your handheld. It's been around since early 1997 and has become the most popular program of its type. Indeed, since early 2001 PocketMirror Standard has come installed on most handhelds. An upgrade to PocketMirror Professional is available on the Web, as are full versions of both programs.

If you have PocketMirror Standard on your handheld already, upgrading is very simple and you just continue as previously, except of course that you now have more control over your data. If you're buying PocketMirror for the first time, installing it from scratch requires caution and patience. Caution because it's possible to lose data instantly if you set things up incorrectly, and patience because you need to read the instructions carefully first and then follow them step by step.

To start with, take the warnings to back up all your data seriously and do this before you do anything else. Then, if you got your Palm Desktop from the Web, you need to uninstall and replace this with the version on the CD. I think there should be more warnings to slow down the careless/fearless/feckless types. Falling into one or more of these categories myself, I lost hundreds of Memo Pad/Notes documents and was only saved by my backup.

Once the first data transfer was out of the way, I was impressed by how PocketMirror worked. Trying it out over a few weeks, I couldn't think of anything Chapura had missed. Data transfer options are clever and useful. One example specific to PocketMirror Professional is My Memo Pad, which has a lot of added categories that I wanted to see go across to Outlook — that's now possible.

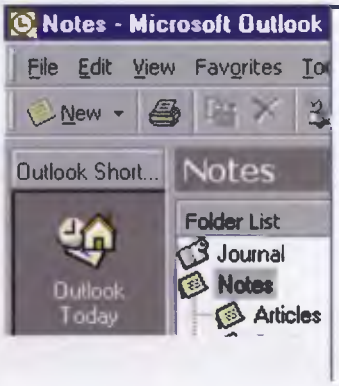
However, there is one area where I got into trouble. I can only repeat: please read the instructions carefully.

Let's say you created a record on your handheld, synchronised, then changed it both on your handheld and in Outlook. Previously, when you synchronised, both Outlook and your handheld would end up with two versions of that record. Now, you can decide which of these two alterations you'd most like to keep. This is saved as your synchronised version. The other copy isn't deleted, it's sent to a Conflicts folder.

Additions to Outlook Notes transferred from the handheld can be set to come up in a different colour. Alarms can be transferred from one platform to the other, or not. If you synchronise at more than one machine connected to the same Exchange server, you can even alert PocketMirror to avoid downloading the same data twice.

Other good things in both versions are easy-to-understand sync log messages, clear help files, better-than-average access to Web help (press a couple of buttons to email your log file to tech support), a comprehensive range of filters for info each way, and the PocketMirror icon on the Outlook taskbar, which gives you quick access to changes in data transfer settings.

If you already use PocketMirror Standard, the extra features of Professional justify its upgrade price. If you've never used something like this before, it's good value compared to other products on offer. I'd just like to see setting up made simpler. It's still too easy to get into trouble. ■




***Contact*** Chapura
***Phone*** N/A
***Online*** www.chapura.com
***Price*** Professional full version US$49.95; Standard full version US$39.95; Upgrade to Professional from Standard US$24.95
***Verdict***

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## Kyocera Mita FS-1010

# CHEAP PRINTS

The explosion in affordable laser printers has been good news for small businesses and home users. The printers give great results and can cost less to run than inkjets. Kyocera's entry-level FS-1010 is a particularly impressive example.

As with most printers, setup is easy — all you have to do is insert the toner, plug everything in and install the drivers. There's a 10-minute delay while the printer initialises the print cartridge, but you don't have to wait long once this is done.

It has an average-sized footprint, so it's just small enough to fit on a desk — but you'll need to sit it on the side so you can open the refill tray.

The FS-1010 isn't quite as fast as the Lexmark (below), but it's not far off. Single pages of text and Web pages took only a few seconds longer to print, and times for the two units were very similar when producing multiple copies. Image print time isn't quite as good, particularly when printing more than one copy. Ten full-page renders took two minutes and 15 seconds to print, compared to only one minute, 25 seconds on the Lexmark.

The quality of prints is fairly high, and it was difficult to tell the difference between the text prints of this unit and the more expensive E322. However, differences between Web pages and images were more pronounced. The FS-1010 produced a small amount of pixelation on most rendered graphics.

The FS-1010's best feature is price. At $825 it's slightly less expensive than most entry-level laser printers. Even bigger savings are possible in the toner department — refills are substantially cheaper than most of its competitors. A 6,000-sheet cartridge is a mere $132 — 2.2 cents per page. This is under a third of the Lexmark's seven cents per page.

The FS-1010 is a great option for businesses or home users on a tight budget, and it can even claim some minor "environmentally friendly" features. It proved to be sturdy and reliable in our testing, and its excellent text printing capabilities and low-cost toner refills make it a great buy.

***Daniel Gardiner***

***Contact*** Kyocera Mita
***Phone*** 1300 364 429
***Online*** www.kyocera.com.au
***Price*** $823.90
***Verdict***

## Lexmark E322

# STURDY PERFORMER

This mono laser printer provides all the basics with style. It's probably best suited to small businesses as it's geared up to print documents and envelopes, and that's about it. Nevertheless, it performs these duties admirably and with reasonable speed.

Setup using USB is a snap, thanks to easy-to-follow instructions and simple controls. Install time is relatively quick as well at under 10 minutes.

Overall print quality is excellent — good strong blacks on text, and little visible pixelation on most images. Pictures sometimes turned up grain marks from the printing process, but this was rare. Delivery of text documents, Web pages and images was swift. Each of our test files printed in under 20 seconds from a cold state.

The software options are rather cool — you can print multiple pages on one A4 sheet or in "booklet form" (multi-page documents are automatically formatted and printed to work as an A3 book) as well as the usual contrast and clarity controls.

This printer's form factor is both a benefit and weakness. As there's no printer tray, it doesn't require much desk space to operate, and loading or manipulating paper is rapid. However, the input and output slows are almost vertical, so it doesn't stack printed documents well.

The standard model E322 with USB and parallel ports is reasonably priced. A networked version is also available, but costs considerably more. You could buy a cheap print server for the difference.

A high-yield (6,000-page) print cartridge for the E322 will set you back $435, or about seven cents per page. By contrast, HP's LaserJet 1200 (the most directly comparable) costs about five cents per page. This may not seem like a huge amount, but when you multiply it by, say, 500 pages, the E322 costs $35, while the HP 1200 is only $25. Over a year this can result in a considerable difference.

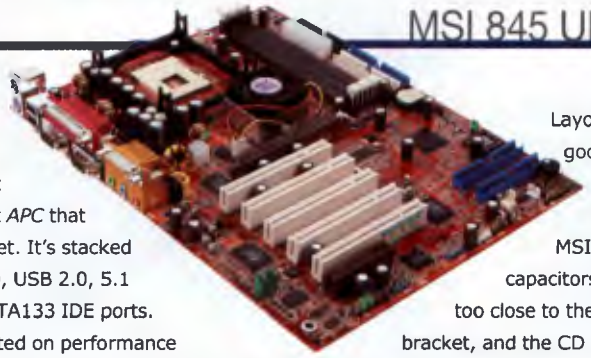
Overall, the E322 is a simple but sturdy performer that's capable of handling a reasonable workload. Its one shortcoming is the cost of toner, so if you're planning to print large amounts you might do better to consider the Kyocera.

***Daniel Gardiner***

***Contact*** Lexmark
***Phone*** 1300 362 192
***Online*** www.lexmark.com.au
***Price*** $985 ($1,649 with network adaptor)
***Verdict***

## MSI 845 Ultra-ARU

# ULTRA COOL



MSI's 845 Ultra-ARU is the first motherboard we've received at *APC* that uses Intel's i845D "DDR" chipset. It's stacked with high-end features — RAID, USB 2.0, 5.1 channel sound and even two ATA133 IDE ports.

The Ultra-ARU can't be faulted on performance or stability. Like all the i845Ds we've tested, it stormed through our benchmarks with ease, and even managed to match our RDRAM P4 (the test results are on this month's CD set).

It's also capable of frontside bus and CPU multiplier overclocking through the BIOS. However, as it's all but impossible to get a multiplier-unlocked P4, most people will be restricted to frontside bus tweaking. Using this method, we managed to squeeze an extra 100MHz from our 2GHz (a modest 5% increase), but anything over this caused instability. A 5% boost is not terrible, but at these speeds you'll hardly notice it. So although these overclocking tools are welcome, the board isn't quite as stable as the ASUS P4B266 (below).

Layout is generally good, but it does have some characteristic MSI flaws — capacitors are mounted too close to the CPU heatsink bracket, and the CD and auxiliary sound inputs are partially obscured by the AGP graphics card.

Sound quality from the onboard chip was reasonably good, but there was a noticeable difference between it and an Audigy.

Intel-based Pentium 4 motherboards have never been cheap, but this board is cheaper than most of the other i845Ds available, and it has a great set of features.

***Daniel Gardiner***

***Contact*** MSI Computer
***Phone*** (02) 9748 0070
***Online*** www.msicomputer.com.au
***Price*** $385
***Verdict***

## Tuck it away

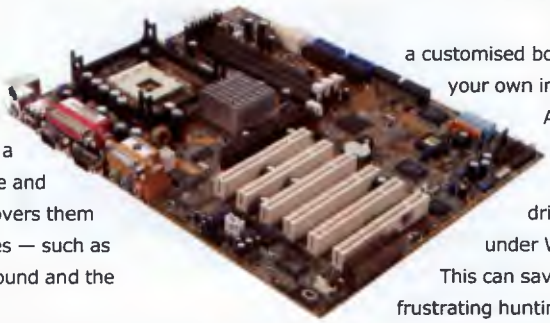
Anyone who's travelled with a wireless LAN PC Card slotted into their notebook will know that one of the biggest problems is the risk of snapping off the antenna portion, which protrudes from the slot.

The new Wireless LAN PC Card with "XJACK" from 3Com has been designed to resolve this danger by employing a clever retractable antenna that tucks away when it's not in use. Smart thinking.

**ap.3com.com**

## ASUS P4B266

# MOTHER OF AN OVERCLOCKER



Most people look for three things in a motherboard: stability, performance and features, and ASUS' i845D board covers them all well. First, it delivers cool features — such as USB 2.0, integrated 5.1 surround sound and the ability to overclock your CPU.

Second, the performance difference between this and the MSi board above was negligible — both bettered the SiS645 in 2D graphics and disk tests, and they can hold their own against RDRAM P4s. The near identical results are not surprising given the robust nature of the i845D.

Overclocking is one of ASUS' strong areas, so we had more success with the P4B than with the Ultra. The ASUS ran a 2GHz CPU stably at 2.18GHz with frontside bus tweaking only — a 9% boost.

Although the hardware features are pretty decent, the ASUS lacks some of the newer innovations such as ATA133 support. However, there are numerous small touches. For example, it comes with software that allows you to create a customised boot logo using your own image.

A small bonus is that the USB 2.0 drivers work under Windows XP. This can save hours of frustrating hunting for the Microsoft patch. The MSI drivers don't work under XP, and couldn't even be legitimately downloaded when we checked.

The two motherboards reviewed here are very difficult to choose between. The MSI has one or two extra features, and it's around $20 cheaper. However, if you're dead set on overclocking and want rock-solid stability, the ASUS is slightly more robust.

***Daniel Gardiner***

***Contact*** Achieva
***Phone*** (02) 9742 3288
***Online*** www.achieva.com.au
***Price*** $405
***Verdict***

## Mini mobility

This compact mobile phone is the new colt in the Motorola stable. As the latest entry-level model, the T191's features are geared more towards lifestyle than professional use. This includes novelty items such as animated screensavers and icon messaging, SMS chat messaging, six games and scheduling functions. It also includes WAP.

Weighing just over 100g, the device is so tiny that battery life is limited. However, at $499, it's an otherwise versatile phone.

**www.motorola.com.au**

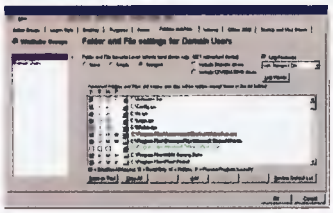
## Top of the food chain

Iomega has again upped the specs on its portable Predator CD-RW, this time adding Windows XP support and USB 2.0 for very swift copying of data. The unit's burning capabilities have also seen an upgrade — it now churns out CD-Rs at a speedy 24x, so you can burn most discs in under five minutes. It also has 10x rewriting and 40x read capabilities, and retails for $599.

**www.iomega.com**

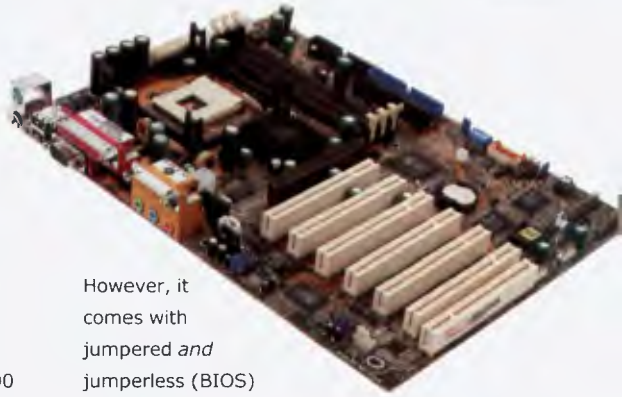
## Access management

Many educational institutions in Australia run access management software on PCs in computer labs to restrict students' access to the network. Using WinSuite 2000, network administrators can control the access each person has not only to each machine, but also to any data transferred over a network. WinSuite is priced per user, although discounts are offered to educational institutions and a special unlimited user licence can be purchased if necessary. Go to **www.apcmag.com** for an in-depth review.



## ASUS P4S333

# **CLOCK UP** A WINNER



ASUS' P4S333 is a great addition to the 645 family. SiS has again moved a step ahead of Intel by offering the next hot thing in P4 motherboards: support for the new 333MHz DDR. This RAM is close to 25% faster than standard PC2100 DDR. Higher RAM bandwidth means data can get to and from devices more rapidly, and this results in faster performance.

Is the performance difference between PC2100 (266MHz) and PC2700 (333MHz) DDR worth the extra cash? We tested the P4S333 twice using two 256MB sticks of KingMax RAM: one of each DDR.

The board performs quite well with PC2100, just falling short of the i845D in one or two areas. It does a little better with PC2700, scoring between 2% to 10% faster. However, it still falls just short of the i845. The price difference between 266MHz and 333MHz DDR is usually less than 15%, so the faster RAM is a reasonable investment.

The P4S is fairly light on features, these having been sacrificed to allow for a better price. However, it comes with jumpered *and* jumperless (BIOS) overclocking options, and proves to be a good overclocker. Our test P4 2GHz CPU ran stably at 2.2GHz (10% faster) and managed a 9% increase in benchmark scores.

Despite the lack of features, this board delivers impressive performance for enthusiasts on a budget.

***Daniel Gardiner***

***Contact*** Achieva Technology Australia
***Phone*** (02) 9742 3288
***Online*** www.achieva.com.au
***Price*** $300
***Verdict***

apc EDITOR'S CHOICE MAR 2002

## HP cp1700/d

# **INK** SPONGE

The cp1700/d is a full-duplex version of the cp1700. It is a business-grade inkjet printer capable of printing at a resolution of 2,400 x 1,200dpi in colour, on photo paper up to A3. Printing on photo paper is time-consuming in maximum quality mode — for example an 8.5 x 11in sheet takes over nine minutes, but this dropped to around four minutes when we enabled interpolation, and dropped the image quality marginally.

Connectivity is one of the unit's strong points, with USB and parallel connections on offer, as well as an infrared port. To aid network printing, you can install a JetDirect 200 Ethernet card, available from HP for $337.

Using a snap-on lower-print cartridge, the cp1700/d can print to both sides of an A3 sheet of paper simultaneously, although the paper might as well be a sponge considering the quantity of ink used. The printer has 16MB of RAM, so you can send large image files to the printer for processing.

For text, there are eight built-in fonts and support for PCL 3.

For such a powerful printer, its 150-sheet paper tray is disappointing; for a busy office, you will have to shell out for the 400-sheet tray.

As with all inkjet printers, the HP lagged a little under large printing loads, although print speeds ranged from 15ppm in draft mode through to one page every nine minutes in photo-quality mode. There is a noticeable difference in the quality of the output between the modes, with draft mode generating smeared text and banded graphics. The scaling of quality per print time is to be expected with an inkjet, and for a large volume home and small business printer, the cp1700/d is hard to fault.

***Matt Overington***

***Contact*** Hewlett-Packard
***Phone*** 13 23 47
***Online*** www.hp.com.au
***Price*** $1,379
***Verdict***

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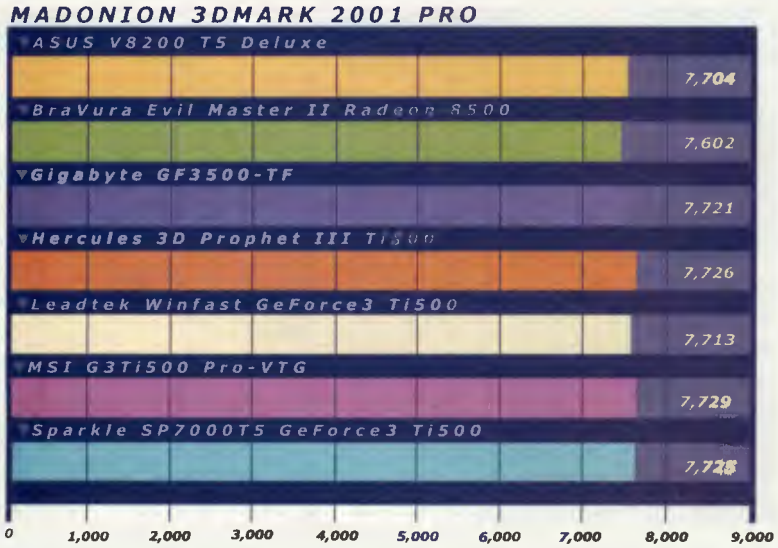
# SEND IN THE CLONES

**GEFORCE3 TI500s. THEY'RE FAST. THEY'RE EXPENSIVE. THEY'RE ALL THE SAME.** *By Daniel Gardiner*




Yep, you read right. *APC* benchmarked six of these beauties, and the difference didn't amount to a hill of beans. Of course, when we began testing for this feature we were expecting a close match. But not *this* close. So what then, is the difference?

When you fork out for a GeForce3 Ti500, you're really buying an investment. Despite having been out almost six months (and with GeForce4 cards close to release), they're still hot stuff — and they've got the brawn to last a good while longer. Given the similarity of their benchmarks, we reviewed these cards based on three main criteria: features, quality and price. So when you're shopping for a GeForce3, keep a keen eye on exactly what you're getting — and more importantly, what you'll actually use.

## GIGABYTE GF3500-TFC

The Gigabyte and Hercules GF3s are very similar — both use cool blue printed circuit boards (PCB) and have almost identical "Blue Orb" style heat sinks and fans. There are subtle differences in design, however, so these aren't merely rebadged cards out of the same factory. The Gigabyte usually comes out second in terms of looks.

This kit's major strength is its software bundle: it comes with four full games (three of which are excellent), two trial games, PowerDVD 3.0 and a well-stocked driver CD.

The four full games that are included are Rune, Heavy Metal: FAKK2, Motocross Mania and Serious Sam. While the first two are great titles in their own right, the pick of the bundle is Serious Sam, an awesome FPS from last year that's simply a blast to play. Motocross Mania isn't particularly bad, but it isn't particularly good either.

The one notable thing that is missing here is tweaking software, which is included with almost every other card.

Gigabyte has produced a reasonably priced, well stocked offering.

**Contact** Hallmark
**Phone** (03) 9540 8555
**Online** www.hallmark.com.au
**Price** $849
**Verdict** ▮▮▮▮

## HERCULES 3D PROPHET III TI500

At $899 the 3D Prophet III Ti500 is smack bang in the middle in terms of price, but it's still outdone in terms of bundled extras by the cheaper Gigabyte (reviewed above).

It offers a fairly basic no-frills package without any games and the card has fairly typical outputs, packing the usual DVI, TV-out and VGA ports. It does, however, come with a genuine Blue Orb brand cooler (coveted by graphics card overclockers everywhere), which is slightly more lustrous than the Gigabyte's imitation. The card is also well constructed, and has generally neat and tidy components.

Like almost every Hercules product, it comes with PowerDVD 3.0 — a fairly robust and full-featured software DVD player. If you don't have a DVD-ROM, however, then it won't do you much good.

The 3D tweaker program which is included is fairly full featured, but a lot of its specific components come as part of NVmax anyway (see Workshop, page 119).

It's not a bad option for users who want the Blue Orb cooler, but you might be disappointed by the lack of software.

**Contact** Guillemot
**Phone** (02) 8303 1818
**Online** au.guillemot.com
**Price** $899
**Verdict** ▮▮▮▮

## LEADTEK WINFAST GEFORCE3 TI500

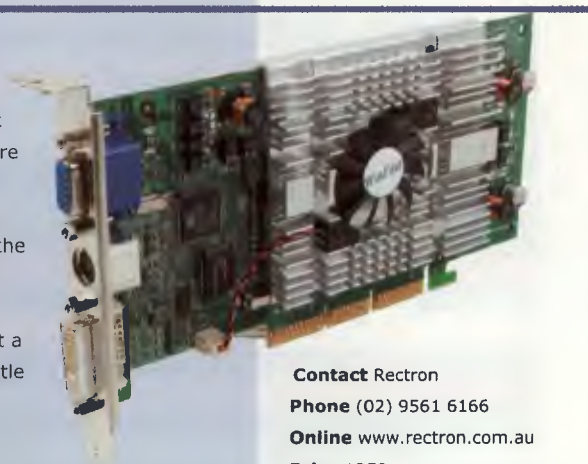
You can feel the quality of the heat sink on this card — a single piece of metal covers both the core and the RAM, and it's one heavy sucker.

Software support for the Winfast is decent, but not great. The WinFox utility provided with the card is a fairly broad tool — it extends well beyond just graphics tweaking, and can tell you how much free memory you have, as well as what speed your CPU is currently running at. Unfortunately, some of the more advanced features (such as measuring the GPU surface temperature, fan speed and voltages) aren't supported by this card.

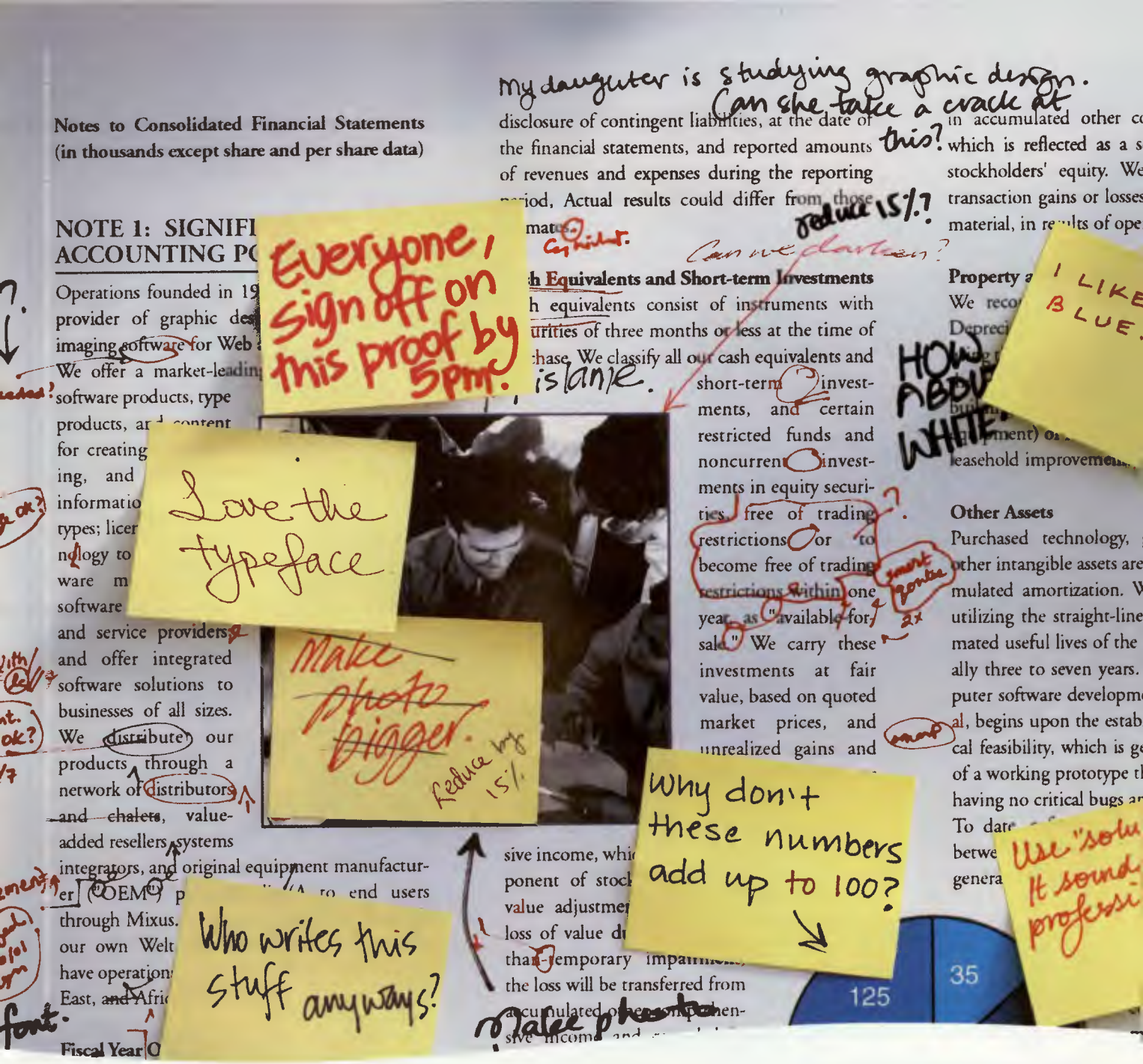
Leadtek's bundled games are also fairly average. Both titles (Gunlok and Dronez) use some of the more specialised features of DirectX 8 — so they look pretty spiffy — but they're rather lightweight in the gameplay department.

They're also exactly the same titles that were shipping with Leadtek's original GeForce3 almost a year ago, so they're a little dated.

Generally, this is a decently priced but not exactly dazzling kit.



**Contact** Rectron
**Phone** (02) 9561 6166
**Online** www.rectron.com.au
**Price** $850
**Verdict** ▮▮▮▮





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## MSI G3TI500 PRO-VTG

The Pro-VTG is MSI's top of the line GF3, and it's a pretty much a facsimile of the ASUS V8200 reviewed below. It comes with almost identical features, such as S-Video/RCA inputs for video encoding and stereoscopic 3D glasses. Also, like the ASUS, it lacks a DVI port.

Although they're slightly superior to the V8200's offering, the MSI's 3D glasses are still not perfect. They're significantly lighter and infinitely more comfortable than their ASUS counterpart, but unfortunately our review unit lacked drivers for Windows 2000 and XP. You can still view movies and still pictures under 2000 or XP, but in order to get game support we had to download an update from nVidia.

The Pro-VTG looks sweet, with MSI's token red PCB clashing nicely with the big silver heat sink. Setting it up can be slightly messy, however, as to use the glasses you need to plug in a separate daughterboard, as well as its own power supply. There's a second port for 3D glasses, though, which means two people can watch a 3D movie at the same time.

**Contact** MSI Computer Australia
**Phone** (02) 9748 0070
**Online** www.msicomputer.com.au
**Price** $945
**Verdict**

## SPARKLE SP7000T5 GEFORCE3 TI500

If you're just interested in a basic bare-bones Ti500, then the Sparkle might be right up your alley.
Sparkle is one of Taiwan's lesser known manufacturers, and its products usually do away with all gratuitous add-ons to offer reasonably cheap (but utilitarian) alternatives.

The manual is surprisingly glossy, but there's not much in it.

There's little in the way of software either; it ships with nVidia's reference drivers (unlike all the others we reviewed, which have manufacturer-specific ones) and PowerDVD 3.0.

The card uses standard green PCB, and has a fairly chunky "ninja-style" fan. It has basic, very flat RAM sinks — they don't have heat dispersing fins of any kind (like most of the other cards). This lack of surface area means the card isn't as suitable for overclocking.

This is not a terrible card by any means, but it's lacking in certain key areas. However, at this price, can you really complain?

**Contact** Australia IT
**Phone** (03) 9882 1811
**Online** www.australiait.com.au
**Price** $795
**Verdict**

## ASUS V8200 T5 DELUXE

ASUS's V8200 T5 is a nicely rounded kit which bucks the trend with some unusual ports and extras. Unlike most of the other cards here (which come with DVI, VGA and TV-out) the T5 has ports geared towards video input and output. It comes complete with video capture software, so you can create digital videos using your own VCR or TV — and the capture quality is pretty decent too.

ASUS's other featured bonus is 3D glasses — and not just the old red and green cardboard type. These actually plug into the back of the card and let you watch movies, view pictures and play games in 3D. Apart from slightly washed-out colours, the 3D looks quite good. The glasses, however, are quite cumbersome and uncomfortable, and often slip down the bridge of your nose.

Still, this is a first-rate kit with an excellent manual and software bundle, along with some very useful extras.

apc EDITOR'S CHOICE MAR 2002

**Contact** Achieva Technology Australia
**Phone** (02) 9742 3288
**Online** www.achieva.com.au
**Price** $965
**Verdict**

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## BRAVURA EVIL MASTER II RADEON 8500

While ATI's hot new Radeon 8500 already has a reputation for offering awesome power at an unbeatable price, it's also been plagued by controversy since its release late last year. Certain much-talked-about features were unsupported in the shipping drivers, and enthusiasts discovered that ATI had "tweaked" the way Quake 3 draws environments — which incidentally resulted in inflated benchmark scores. This wasn't exactly the stellar launch the company had been hoping for.

While most of this settled down with the release of new drivers, there are still relatively few cards available locally. Most major manufacturers aren't willing to commit to making R8500s, so the few we've seen are from smaller companies.

BraVura's R8500 may look plain compared to the Ti500s, but it still delivers in the performance arena. It's a fairly stock-standard OEM board — it comes with 64MB of DDR and runs at 250/550MHz (core/RAM). This is a little slower than ATI's official design, which is clocked at 275/550MHz. This means that it won't quite have the rendering capabilities of some other R8500s, but you'll only notice it at very high resolutions.

It still managed to perform admirably in our benchmarks. Even with its slight edge in clock speed compared to the Ti500's 240/500MHZ, it can't quite match nVidia's flagship product in raw rendering power.

It sits quite comfortably between our reference Ti200 and standard GF3. At higher resolutions it even managed to outdo the GF3 in several benchmarks.

The best thing about the BraVura is its price. At a tiny $645, it's well under the cost of any Ti500, and many Ti200s as well. While it hasn't knocked the crown from nVidia's head, it's still a great little performer with a bright future.

**Contact** Australia IT
**Phone** (03) 9882 1811
**Online** www.australiait.com.au
**Price** $645
**Verdict** ▮▮▮▮


MAXTRON

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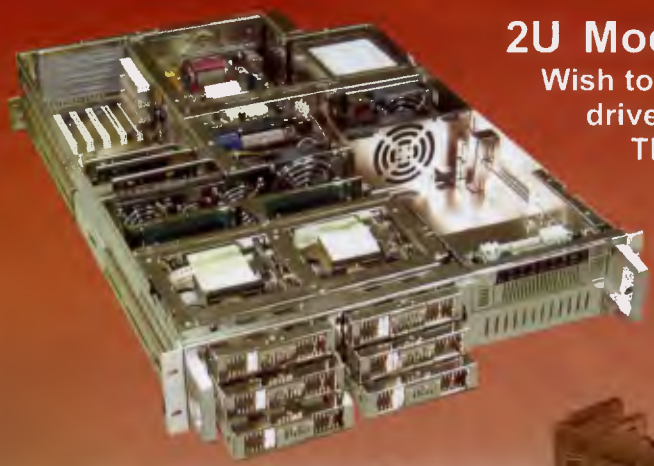

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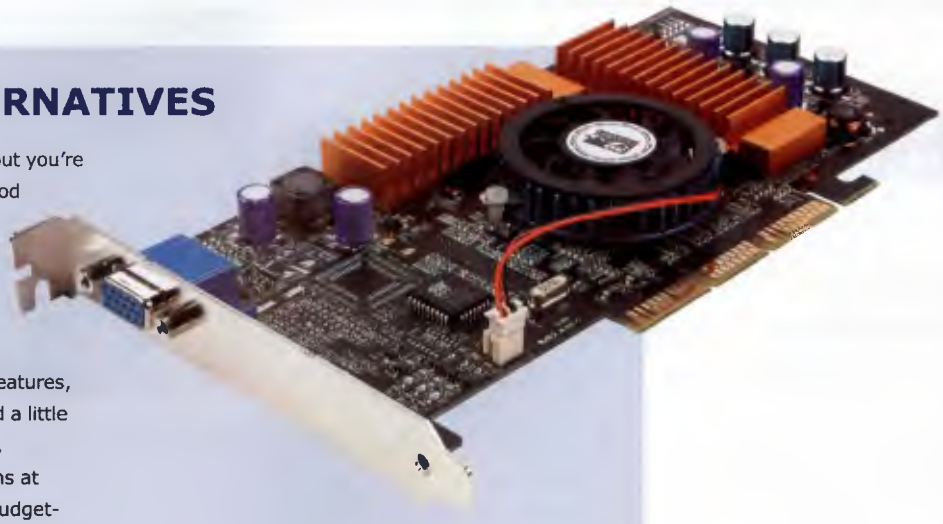
## THE CHEAP ALTERNATIVES



Sure, a Ti500 would be sweet, but you're not made of money! The good news is that you can have GF3 performance for a much lower price. nVidia's Ti200 is a scaled-down version of the GeForce3. It still packs the same GPU and specialised rendering features, but its core and RAM are clocked a little slower than the standard model.

While a typical GeForce3 runs at 200/460MHz (core/RAM), the budget-oriented Ti200 range is clocked at 175/400MHz. Both of these might be substantially slower than the Ti500's 240/500MHz, but even the Ti200 kicks butt over any GeForce2. On average, a Ti200 performs about 10% slower than a standard GF3, and 25% slower than a Ti500. When you consider the massive price difference (sometimes up to 40% compared to a Ti500), the Ti200 is still great value for money.

Once again, the performance difference between these cards was negligible. There was less than 1% variation in this area, so it's the subtle features that define each card.

Many of the cards merely mimic their Ti500 brethren: the Gigabyte, ASUS, Leadtek and MSI kits we examined all consisted of extras that were identical to their more costly siblings. Not many of these scaled-down versions offer a full range of ports though; only the Leadtek and Gigabyte cards can boast all three VGA, TV and DVI outputs.

ASUS once again offers a premium card with specialised video inputs and outputs. However, its $665 price tag makes it somewhat less affordable than the rest.

3DPower's Morpheus Ti200 (pictured above) only costs $549, but it's been stripped back to a bare minimum on almost all fronts. The card only comes with standard VGA-out, and all documentation (such as the manual) is in digital format on the driver CD. Its one stand-out feature is the spiffy Blue Orb fan combo (which isn't actually entirely blue in this case), but it should be noted that the Hercules $549 card comes with one of these, and it's also equipped with TV-out and more software.

Of the entire range, Gigabyte is definitely the stand-out. You simply can't beat a Ti200 for only $569 when it comes with a great collection of bundled games and software, as well as a full set of ports.

We also tested BraVura's Radeon 7500 to see how it stacks up as an ultra-budget option. At $395, it's $150 cheaper than any of the Ti200s. Unfortunately, it often slipped behind our reference GeForce2 Titanium in the performance stakes, so it's no match for a Ti200. The GF2 Ti costs only $50 more, but this is still fairly expensive, considering the performance increase from a GF3 Ti200.

Full card specs, benchmarks and contact details for this section can be found on the cover CD set.

*Check out our GeForce graphics cards tweaking guide in Workshop on page 119.*

### BUYING GUIDE

| | Card | Average price | Wolfenstein average fps |
|---|---|---|---|
| **Low** | GeForce2 Titanium | $450 | 73.1 |
| | Radeon 7500 | $400 | 81.1 |
| **Medium** | GeForce3 Ti200 | $575 | 108.6 |
| | GeForce3 | $750 | 118.6 |
| | Radeon 8500 | $630 | 119.1 |
| **High** | GeForce3 Ti500 | $900 | 126.4 |

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The shop blames the supplier and the supplier plays dumb. So what can you do when a simple repair job turns into a game of cat and mouse?

Dear *APC*,
When people ask me which brand of notebook they should purchase I've always said Toshiba . . . until now. My Toshiba Satellite 30CDT developed a problem after just six months, so I took it to the Mercury Services Group in North Sydney, where I had previously had great service. When I called back four days later, a technician said it needed a new motherboard and that I would be able to pick it up in three days. However, when I tried to collect the notebook, I was told that Toshiba wouldn't deliver the part for another seven days — "Don't call us, we'll call you", I was told. Of course, no one called during the following week, so I decided to go into the shop. The technician called Toshiba, who promised the laptop would be ready in another seven days. The same thing happened the next week, only this time the part was due "sometime in the next two weeks". I tried to call Toshiba myself, but they won't help.
***Newton Braga***
***Brighton Le Sands, NSW***

Newton could see no end to the procrastination. "Why can't they just give me one ETA and stick to it?" he asked. Watchdog took this question to Mercury. Chief executive Derek Merdith immediately apologised for the company's failure to call Newton, but he defended his engineers for the delays. "This is fundamentally a case of shooting the messenger," Derek said.

It turns out that trying to repair Toshiba notebooks is a constant struggle for Mercury. Although it's an authorised Toshiba service centre, Toshiba doesn't allow Mercury to stock spare parts. When engineers are handed problematic Toshiba notebooks, they have to "diagnose" what's wrong, then ring Toshiba and order the part they think might fix the problem. "The average turnaround time for Toshiba will be four to five business days — assuming Toshiba has the part in stock."

Derek doesn't think much of Toshiba's service procedure compared to the procedures followed for other big-name notebooks. "Without a doubt the Compaq service model allows the swiftest service turnaround (48 hours). We're allocated a pool of spares that allow almost immediate repairs. Unfortunately, Toshiba's spares stockholding model is neither as efficient nor as timely. This has been an ongoing issue with Toshiba service."

Watchdog showed Newton's letter to Toshiba representatives only to discover that Derek had already contacted Toshiba's general manager about the complaint. He didn't want Toshiba's shortcomings making Mercury look bad. Toshiba was cornered.

Dear *APC*,
In this instance, Toshiba is clearly at fault and has been unable to supply the required part for the 30CDT for an unacceptable length of time. This model has been very popular in the education market and we have experienced a much higher than normal failure rate. As a result, we ran out of spare motherboards and ordered extra. These have just arrived, but took longer than usual as they had to be manufactured. This situation is unacceptable for the user and we apologise. We have put in place measures specific to the 30CDT in an attempt to ensure we do not have a repeat of this event. In addition, we are putting in place actions in the education market in an attempt to reduce the abnormal failure rates we are experiencing there. We apologise to Mercury for the embarrassment in not being able to satisfy your customer needs.
***Ralph Stadus***
***Toshiba General Manager***

Derek has heard it all before. "We still end up getting the blame." Newton picked up his notebook a couple of days later. (Total broken promises: at least five. Total waiting time: about a month.) Derek is tired of having to say sorry to customers. "It's a bit of a shallow apology," he said. After all, nothing has really changed.
***Fiona Angus***

## CONTACT US

**WE WOULD LIKE TO KNOW HOW IT companies are treating you. Write to: watchdog@apcmag.com or PO Box 4088, Sydney NSW 1028. Include your full contact details and any product information. All correspondence becomes the property of *APC* and is subject to editing.**

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† *Lightest Windows® PC in the world with Crusoe™ processor (source: Fujitsu, Oct '01)*

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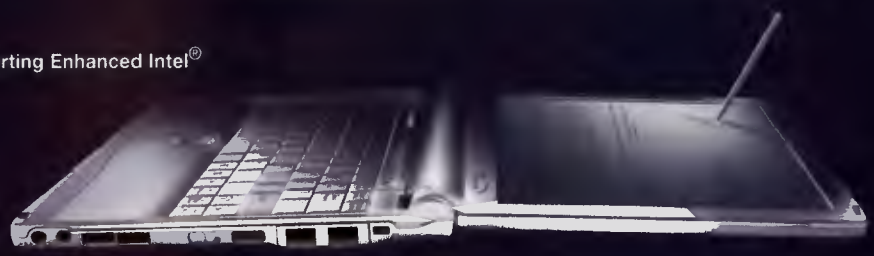

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We welcome comments and suggestions. Send correspondence to:

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Letters can also be submitted online at **apcmag.com**. All correspondence becomes the property of *APC* and is subject to editing.

HOW TO CONTACT US

**PROLIFIC PIRACY**

To put the efforts of Australian authorities to catch software pirates (*APC* November 2001, page 99) into perspective, here in East Timor, people don't know what original software looks like. PC software is sold alongside cigarettes and pirated VCDs for $2. The original "crackers" are based overseas and use the Internet to distribute the illegal copies. They are well-organised and hard to track down. The illegal software I see here is imported from Surabaya in Indonesia. East Timorese people have very primitive computers, so it's the UNTAET (UN) staff who are the main consumers of the pirated software (mostly games). That's why software has suddenly become such a popular business here. So don't bother considering this letter for the Office XP prize, it's easier for me to get it here (and it doesn't have all that security protection).

***Robert Jong***
***Dili, East Timor***

**XBOX ADVENTURE**

I was so inspired by your "Early Xbox" article (*APC* January, page 16), that I went out and bought one on a recent trip to the US. If others also want a US Xbox, here are a couple of issues to bear in mind. First, I was told by Microsoft support that "because games and DVDs are region-specific, and TV sets and power issues vary from country to country, we do not support the use of the Xbox video game system outside of the country where you purchased it". This seems pretty unfair if you buy an Xbox and then move overseas. Anyway, I stubbornly ignored this advice, mainly because I wanted to be able to play US region-coded DVDs. My Xbox cost me US$320 (about AUD$618) plus an international replacement warranty. Second, make sure your TV or video supports NTSC, and third, don't forget to purchase a 240V to 110V step-down power transformer that supports 100W of power (I found one at Tandy for about $130). My next step is to find the best place to buy games on the Internet.

***Matthew Zwolenski***
***Neutral Bay, NSW***

**THE REAL KILLER**

Like Nick Read (*APC* December 2001, page 46), I'd also like a nice new LCD monitor to replace my glary old CRT. He writes that CRT monitors produce more radiation and that this is bad for his health. However, the experts tell us that the level of emissions is very low. Many ill effects have been suggested, but most of them cannot be demonstrated in well-designed studies (you can find out more by reading the Australian Radiation Protection and Nuclear Safety Agency's document "Radiation Emissions from Video Display Terminals" at **www.arpansa.gov.au/is_vdtrd.htm**). LCD monitors are great, but if Nick's priority is personal safety, then I suggest he spends his money on a safer car, because unlike the emissions from CRT monitors, it's a proven fact that cars kill hundreds of people each year.

***Daniel Stroud***
***Radiation Safety Consultant***
***Melbourne, Vic***

**WHEN IN ROME?**

I have to agree with Nick Read (*APC* December 2001, page 46) about the danger of using CRT monitors. If you suggested to someone they should eat off a plate made of lead, they'd laugh, yet that's exactly what the ancient Romans did. If you told someone to go and play with mercury (toxic and carcinogenic), they'd probably think you're stupid, but a few decades ago that's what children did. So I wonder what people in the future will think if you say "I sit in front of an electron gun for a few hours every day!". Sounds silly, doesn't it? But that's exactly what we do when we sit in front of CRT monitors, which direct millions of high-speed electrons at our brains every second. It won't be too much longer before people will call this crazy. It's time to banish CRTs to technological history and bring on the LCDs.

***David Nahodil***
***Hobart, Tas***

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intel inside pentium III

# CC:

### FREE FIX

Contrary to what Ashton Mills says in his "Windows onto Linux" column (*APC* January, page 128), there *are* a couple of free open source X servers for Windows (the most mature I know of is Cygwin-XFree86 at **xfree.cygwin.com**). An alternative approach is to use VNC (**www.uk.research.att.com/vnc/index.html**), which allows remote displaying of Linux on Windows and Windows on Linux. There is also a version of VNC optimised for slow links (**www.tightvnc.org**). Both versions are free and open source. On a security note, both the XDMCP and the VNC protocol are potentially insecure as keystrokes go over the wire in clear text. You can avoid this using an SSH link and port-forwarding (Free Windows SSH clients include TTSSH at **www.zip.com.au/~roca/ttssh.html** and PuTTY at **www.chiark.greenend.org.uk/~sgtatham/putty**). I hope this helps other Linux fans. It was *APC* and the *Linux Pocketbooks* that restored my passion for computers, which disappeared when Windows became too hard just to tinker with. Keep up the good work.

***Rasjid Wilcox***
***Watson, ACT***

### CRACKING THE CODE

I notice *APC* has taken to using mysterious blue and brown rectangles at the bottom of reviews on new products. This is presumably some sort of rating system, yet there's no guide as to how many rectangles are awarded for products that are better!

***Marcus Anderson***
***Sandringham, Vic***

*Thanks Marcus. Products are awarded a rating out of five.*

### OUT OF THE BOX

I wonder if internal modems will ever be as reliable as external ones. They may be cheap, but you're up for lots of frustration, not to mention the reconnection costs when the device locks up. My trusty Duron crashed more in two days using my new internal modem than in the six months when I used a 33.6Kbit/s external one. I can't help wondering if others might be incorrectly blaming their software for crashes when an unreliable internal modem is the real problem.

***Roger Pearson***
***Mount Gambier, SA***

### THE OTHERS

I've been reading *APC* for many years now and have kept an eye on the Handhelds Workshop. However, it only seems to cover the Palm OS. What about the others? I have an HP-Jornada Pocket PC and would find this section really useful.

***Gunther Giesti***
***Kambah, ACT***

*We also love the new PocketPC 2002 and hope to bring you the best tips and tricks as more people move to this alternative handheld OS.* ■

# LETTER OF THE MONTH:

For the last 10 months I have been a happy Optus@Home customer. In fact, I have recommended the service to all my friends and so far 10 have signed up for the service. Recently, I recommended Optus to a colleague who lives in a block of flats. However, Optus refused to install the service and won't budge from its policy, which rules out connecting broadband to units (*see our article on broadband networking,* APC *January, page 46*). His building already has Optus pay-TV cable, so it's hard to see why broadband is different. If it were technically impossible I could understand it, but the fact that the cable runs past his door and not into his flat because of this policy is wrong.

***Matthew Carter***
***North Ryde, NSW***

*Living next to a high-speed hybrid fibre coaxial cable network and not having broadband Internet is an unnecesary torture. Here's what Optus had to say in response to Matthew's letter.*

Currently, Optus is not connecting Optus Television and Optus@Home to Multiple Dwelling Units. This was a decision taken by Optus several years ago as the technology required to service blocks of units is different to that which is required for single standing houses. The technology for blocks of units is currently being developed so that if we do expand our service, we can ensure a high grade of product is available to all units, which are serviceable.

At present, we do not have an estimated time when this development will be completed. If there are units in a block that are connected to Optus Television, then these units were connected prior to this decision. Units that have had Optus Television in the past can be reconnected with the standard installation fee of $330. Unfortunately, this doesn't extend to Optus@Home at this time.

***Optus consumer and multimedia spokesperson***

## THIS MONTH'S PRIZE

WE HOPE MATTHEW CAN CONVINCE Optus to speed up the technical developments that will allow our unit-dwelling readers to experience the thrill of broadband. Meanwhile, Matthew wins a copy of Microsoft Office XP, with the latest versions of Word, Exel, Outlook, PowerPoint and Access.

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intel inside pentium III

*The new iMac is turning heads.*

# COOL!

WILLIAM MAHER

**SEXY CURVES, SCREENS THAT FLOAT IN MID-AIR — IT SEEMS THE COMPUTER WORLD MIGHT BE FINALLY DITCHING THE BEIGE BOX FOR SOMETHING WITH EXTRA PIZAZZ. BUT IS THIS REALLY THE BIG PC MAKEOVER, OR JUST MORE OF THE SAME?**

They call it techno-lust — that special force that makes grown people go weak at the knees over a wide-screen television or (believe it or not) a multidisc DVD player. It's a phenomenon that isn't hard to find. It was on show in a Sydney shopping area recently, when Apple demonstrated its ultra-sleek flat screens and notebook computers. Shoppers stopped in their tracks to check out the translucent cables, or admire the so-white-it-hurts iBook. You'd have thought it was exotic jewellery or artwork on display, not a small plastic box weighing just a few kilos.

The style revolution has hit the computer world, and technology manufacturers are trying anything to give their technology pizazz. Instead of gigahertz and RAM, the message is suddenly all about smooth lines and sexy curves. We're no longer talking prosaic Toshiba notebooks; the concept is luxury European cars, with hubcaps and "radical styling". For starters, you can take your pick between Apple's new iMac, with its 15in flat screen that "floats in mid-air", and Sony's mini purple Vaio notebooks. Has the computer world gone style mad?

PC manufacturers might finally be beginning to ditch the boring beige box for something more exciting, but what's the result? Is this really the big PC makeover, or are we just getting more of the same? And what about the future — are promises of weird shapes, roll-up screens and super-smooth curves really going to materialise? Are these just pipe dreams, or can the graphic arts world, with its fast cars and champagne-quaffing designers, change the face of the PC?

*Toshiba notebook designer Laurie White is more of a suit man than an orange tracksuit wearer. He admits to being told off as a child for pulling apart stereos and televisions.*

**DESIGN HOTHOUSE**

Toshiba product manager Laurie White is a car man. He's passionate about German engineering and has a soft spot for BMWs, especially the new Z9 supercar with the world's first V8 turbo-charged diesel engine. It's a speed machine, but White's more excited about the cool little jog dial for controlling lights and the radio. The less buttons on the dash the better, he reckons.

If you want to find out what tech toys to put on Santa's list in the next couple of years, White's your man. Every three weeks or so the 37-year old jumps on a jet and leaves Sydney for Toshiba's "technology hothouse", a 40-storey office tower overlooking Japan's Tokyo Bay. Inside are hundreds of designers and researchers, beavering away on a treasure trove of design prototypes.

The hothouse is a very different environment to say, Silicon Valley, where Apple's orange tracksuit-clad design guru Jonathan Ives dreams up candy-coloured iMacs. Here at Tokyo Bay, you're more likely to see a three-piece suit than an Adidas tracksuit. Here, the standard colour is beige because, as White puts it, "when it's white, the pollution stains it".

Most of his time is spent 12 floors up in a spartan, vinyl-floored meeting room, discussing prototypes into the night. The team gets in at 9am and often works past 10pm. "The Japanese are very methodical," Whites explains. "They turn art into science." Out the door, past the cafeteria and across the hall, are the machines that tick away endlessly, building the prototypes. By late evening, someone usually orders out for pizza. "It comes from Pizza California, of all places, but the pizzas don't resemble anything like Californian pizzas because they've got mashed potato and corn."

Here at the hothouse, they love to talk tech. Did you know that a supercomputer is used to measure the velocity of the air flowing through every 1mm square inside a notebook computer? Did you know each prototype is handmade? Well, near enough: the moulds for each plastic casing are finely adjusted by hand using a file and emery cloth.

Rather than sketching and colouring, White and the gang spend a lot of their time hanging out with their buddies from Toshiba's technical departments. On floor 13 is the chemical division, where those tiny batteries are made. Jump in the lift and travel two floors up and you'll find VCRs and DVD players. The most important place of all is Toshiba's refrigerator department on level 11.

For Toshiba's new Tecra and Portege notebooks, White explains, the number one design criterion was keeping the unit cool enough to accommodate Intel's Pentium 4 chip. With the help of some

friends in the refrigerator department, they came up with a water cooling system. A closed loop pipe carries water in a vacuum from the CPU, where it turns to vapour, down to the magnesium case, where the heat dissipates. There's a fan, but it only comes on if the CPU temperature reaches 65°C, which doesn't usually happen. According to White, it's the world's first water-cooled notebook computer in mass production.

The exterior styling was left almost till last. Design ideas, contributed by three Californian design houses, are mixed-and-matched to suit the new cooling system, and then voila! One slick looking executive notebook. The way White tells it, the final look came about "almost by accident". The last thing on his mind was expensive cars.

What's funny is that White's special cooling system doesn't even rate a mention in the Tecra ad campaign. Toshiba has decided to sell these computers the way BMW sells cars — using the style factor. Instead of Pentium chips and hard drives, you get "unrivalled handling", "fewer pitstops" and "radical styling". Toshiba pictures its new Tecra and Portege notebooks as expensive European luxury cars — an Audi TT perhaps. What about those side grills? Well, that's for air intake. The vent at the back? That's a radiator. Those two cable sockets? They're the exhaust of course!

**STYLE EXPLOSION**

It's 6.30pm on a weeknight, and the University of Technology building in Sydney's Ultimo is packed to the rafters with people sipping champagne. Glasses tinkle and the room fills so quickly it starts to look a bit like a smartly dressed football scrum.

The place is like an art gallery, but instead of paintings hanging on the walls, there is a futuristic display of prototype video cameras and video game controllers, all created by industrial design students. Next to each display is a small plastic holder containing each student's business cards. The cards are disappearing fast.

The head of the faculty, Douglas Tomkin, can barely contain his enthusiasm. "It's extraordinary. It's really only in the last five or six years that design has become an *in* profession." Around eight or nine years ago, Tomkin's course was just about the only industrial design course in Sydney, and carried between 20 and 30 students. Now the lecture halls are filling at the University of NSW, Western Sydney, Newcastle and Canberra, and at TAFE.

This change is partly due to the phenomenal success of designs such as Apple's iMac. The candy-coloured computer was a huge success when it was launched in 1998, and more than 5 million units were eventually sold. Recently in the US, the next-generation iMac made it onto the cover of *Time* magazine. "Flat out COOL!" shouted the press.

A year or two ago, the new iMac, with its super-sleek flat screen that swivels with the touch of a finger — would have been too expensive to build. Now the technology is cheaper, and Tomkin argues the time is ripe for PC manufacturers to do something similar: "Once you get a breakthrough flat-screen technology, that changes things. There's no question. It's just a matter of cost and time."

**THE BIG SHRINK**

Back at the Toshiba office, Laurie White is almost jumping out of his seat with excitement. He leans forward as he explains some of the concept designs he and the gang at the hothouse are working on. There's the screen with 20% more plastic so it can roll up like a "sushi roll". There are the tiny lithium gel cell batteries (the ones in Nokia's new mobile phones) that'll be used one day in notebooks,

*Toshiba's Tecra notebook: marketed like a European luxury car.*

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perhaps tucked in behind the screen. There's the notebook with a removable touch screen you can type into without a keyboard.

Most of the technology is still years away from practical use, but some is already finding its way into products. White picks up an ultra-slim notebook he's been working on — it's as thin as a ballpoint pen. Just in case I'm not convinced, he rips out a keyboard and waves it in the air: "This is about the thinnest notebook you can get now," he says, and adds that Toshiba's mantra is thinner, thinner, thinner. He pulls out more tiny components. There's a tiny battery and a tiny hard disk — about the size of a credit card. White can't stop grinning.

On the other side of the world, at Compaq's headquarters in Houston, Texas, there's also excitement in the air. The team has been doing their own experimentation and has come up with a notebook that unfolds on your desk. The keyboard detaches, and the screen hovers above it in mid-air — it's a bit like Apple's new iMac.

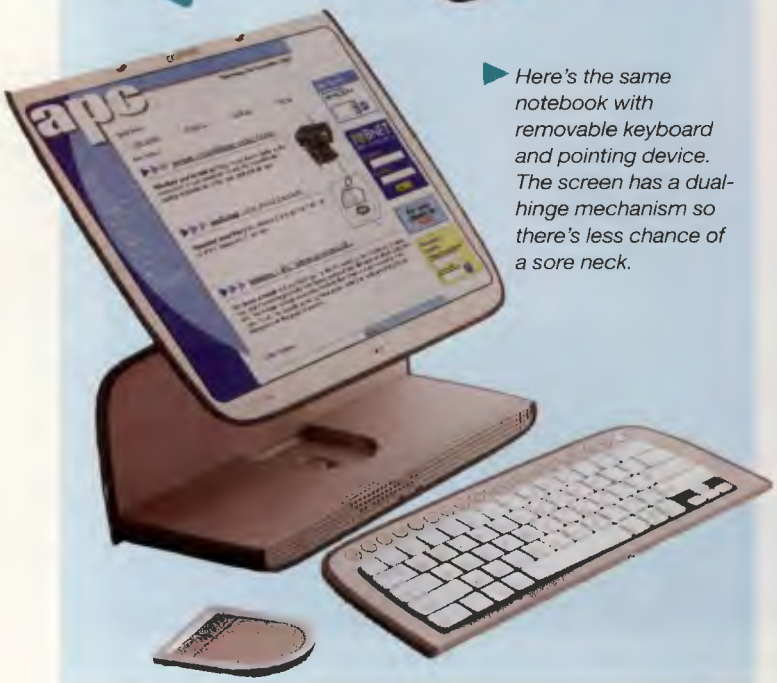
Randall Martin is Compaq's design chief, a goateed American who drives a red limited-edition 1991 ZR-1 Corvette (at a top speed of 180mph it's one of the fastest production sports cars in the world, he says). Designers have never had it easier when it comes to creative shapes, says Martin. Prototypes are built onscreen in 3D, where they can be twisted and turned, and every detail zoomed in on. Moulds are cut from molten plastic using data directly from the computer. What once took a year to design, now takes three months.

However, a trip to see Compaq's cool design dreams is like a trip to see the concept cars at the Detroit motor show — there's lots of futuristic machinery to gawk at, but nothing to buy. It's a case of "look, but don't touch".

*Compaq's design chief, Randall Martin: "We can now make complex curves and surfaces. Software performs the magic for us."*

# TWO-IN-ONE

*It's a notebook . . . no wait, it's a desktop. It's actually both — a notebook and desktop hybrid designed by Compaq's strategic design team.*



*Here's the same notebook with removable keyboard and pointing device. The screen has a dual-hinge mechanism so there's less chance of a sore neck.*

The problem is that these futuristic PCs look cool, but they can be impractical — a bit like using a BMW Z9 to do the weekly grocery run. With the iMac, you can't do the same sort of tinkering as you can with a white-box PC. If you want a larger screen, you'll probably have to buy a whole new computer. Want to add an extra CD drive? You'll have to plug one in externally — it's like dragging a trailer behind a two-door convertible.

Anyway, do these crazy designs sell? The first iMac got bucketloads of hype, but Apple still has less than 5% of the worldwide computer market. Initial iMac sales revived Apple, but other style statements such as the first iBook and the silver Cube were far less successful.

Martin explains that Compaq doesn't do a lot of "decorative lines", and doesn't go for "real trendy design statements". "We applaud Apple, they do wonderful, beautiful designs, but it's just a different market. I don't want to use it as an excuse, but in a way we are a lot more limited in how flashy we can make the design, just because we have to appeal to such a broad, global customer base," he explains.

That's not to say style isn't important at Compaq. Martin's team works with the idea that people are pretty overwhelmed with new technology. Baby boomers, for example, want comfortable familiar shapes — nothing too radical. Compaq has obliged with retro style cues from big American cars and chrome-plated toasters. On its Evo computers, this translates into a kind of carbon black with a metal finish, just like a real Cadillac.

**PIPE DREAMS AND PROTOTYPES**

Meanwhile, on the 12th floor at Tokyo Bay, the hothouse team have their work cut out. White's still got that ultra-thin notebook to finish — the goal is that one day, key parts such as the memory, batteries, and even the CPU will be tucked behind the screen instead of resting on your lap. There's also that roll-up screen to work on. At the moment it costs a staggering US$200,000 (about AUD$385,000). Toshiba exhibited a prototype at Comdex in November last year and put pictures of it on the Web, but they've since disappeared. The company is scared that someone might pinch the idea.

These things are still pipe dreams, of course. White's also interested in more pressing issues such as how to keep his prototypes cool. There's the Pentium 4 sizzler to deal with, and after that, probably another chip, even hotter than the last. He's heard that some notebooks are already so hot that they're burning a mark on desktops. You get the feeling car-inspired design statements aren't always at the top of his list — even if they involve his beloved BMW Z9.

Still, White mentions an advertisement he saw on television recently for a hatchback car. The main selling point was a special hook inside the car for hanging bags of takeaway food. "It just stuck in my mind. So they're not selling the engine at all? Now we're actually focusing on middle-to-high income singles who don't want to make dinner. Next thing you know, they'll be selling a design based on McDonald's food holders or something."

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John Bevins TSH30001-7R

# THE ZEN OF DESIGN

On the fashion catwalks and in the café sets of the computer world, two brands are synonymous with style: Apple and Sony. Arguably the only notebook maker to rival Apple's iBook designs, Sony was a breath of fresh air in the computer world of the late 1990s, and brought with it designers responsible for technology icons like the Walkman and the PlayStation. Suddenly, it seemed computers could be cool again. So what is it that sets Japanese technology design apart from its Western counterpart?

The answer can be found in examining Sony's famous design process, responsible for such head-turners as the Vaio computer series. The Vaio sparks instant curiosity with its violet and silver magnesium colour scheme and ultra-sleek styling. Instead of square batteries, some Vaios have a little cylinder that hangs from the back and snaps on and off quickly. Vaios also have special features such as a jog dial for switching between programs, and sometimes even a built-in "eye" for taking photos and recording video. The message is clear: Sony computers aren't just word processors, they're lifestyle accessories.

As with the Walkman, Sony is constantly evolving the Vaio design. With the unit pictured here, for example, designers have begun to explore curved lines and accessories like the docking bay. Matching the notebook and docking station posed the biggest difficulties. The docking station was kept black, while the notebook was given the silver treatment. The black appearance of the docking station makes it look like the "shadow" of the notebook, and is therefore less noticeable. It's the result of a constant drive to improve, change and adapt — the Japanese call it "kaizen".

The kaizen principle is embodied in Sony's "Sunrise/Sunset" strategy, which considers all products within a family (like the Vaio series) as moments in a single day. The first iteration occurs at sunrise — a totally new product that is typically expensive and almost experimental in nature, yet hints at rich possibilities. In early morning comes the second generation, in which the wrinkles are removed and improvements increase tenfold, as competition begins to heat up. This is followed by the third, "late morning" version, a design-inspired high point where the product attains iconic status.

Throughout the afternoon period the product evolves as the line is split into branches, each aimed at a different user. Now design and marketing are in the ascendancy, as only marginal improvements can be made to the technology itself, and only then in response to the target market. Shape, colour, materials, intended uses, generational, cultural and even gender distinctions come into play as customers are niched into ever-smaller groups.

Finally comes the sunset period of a saturated market. The technology having reached the zenith of performance and affordability, designers have licence to indulge in elaborate whimsy, as image is now of primary importance.

At the end of Sony's Sunrise/Sunset lifecycle you get a situation like Tokyo's downtown shopping area. Weaving a path through the noisy, flashing streets of Tokyo's tech-crazy Akihabara shopping district is like manoeuvring through a gaudy giddy cyber-circus. Telephones that look like manga jungle animals, pink Hello Kitty can openers, walls of gadgets at the Tokyo Hands department store which simply defy description. Hundreds of millions of hands simultaneously adopt and discard, swapping new tech for that which is perceived to be old.

"There's absolutely no compunction in trying stuff which doesn't have to make sense," observes Dennis Boyle of IDEO,

arguably the world's leading technology product and design studio. IDEO crafted the first Apple mouse, the Palm V and Handspring Visor, and notebooks for Apple and Dell. Boyle, a cofounder and principle of IDEO, is both an observer and admirer of Japanese design.

"The kaizen ethic is a force in their culture to improve things almost around the clock. This can serve well for products but can also have silly side effects, like adding a sunroof to a toaster. Okay, I made that one up, but they add so many functions to a single product over and over. It's admirable and at the same time it's sort of crazy. There's an amazing amount of energy to constantly change and improve, and that's the way they approach life."

Still, there's method to this madness. Most visibly, Japanese tech design is driven by the need to make things small enough to fit in tight spaces, as space is one of the nation's rarest and most precious commodities. Every item is very carefully considered with regard to existing in a much higher density living environment.

But saving space isn't the only aspiration of Japanese engineers. Their sense of design has its roots in Shinto, a religion based on awe for the manifestations of nature, and in the simplicity of expression of Zen Buddhism.

IDEO's Boyle believes these concepts extend from everyday Japanese life into creators' approach to their products. His imagining of the Palm V is perhaps a Walkman for the digital decade, where form and function are merged so that the product reaches the same slim dimensions as the shirt pocket.

***"JAPANESE DESIGN IS VERY SPACE EFFICIENT, VERY CAREFULLY THOUGHT OUT FOR MUCH HIGHER DENSITY LIVING ENVIRONMENTS. IT'S MORE COMPACT AND ALSO MORE REFINED."***

*Ideo designer and tech style guru Dennis Boyle: "Japanese tech design is compact and refined. US design, by and large, kind of overdoes curves."*

"I think there's more appreciation of the object, of the purity of the object, an attempt to not have too cluttered a place to live. Some of the culture values simplicity and serenity, a peacefulness due to the lack of input. There's a bit of a Buddhist meditative approach to have things a little simpler, to not overloading your space and your vision with too much material."

The way Boyle explains it, Japanese design is more compact and more refined. While the Vaio fits neatly into a briefcase, or the Palm into a shirt pocket, US products tend to overdo curves, resulting in slightly bloated design.

"If you walk down Japanese streets or go into their stores, this doesn't always seem to be the case, but if you go into their homes it is — they can separate this crazy wild madness that is the Tokyo streets, and their homes. They're very good at partitioning the necessary craziness of existence from the peace required for living."

***By David Flynn and William Maher***

# DELICIOUS APPLES

Mention the word "design" in the context of the IT industry and Apple's name will come up, guaranteed. After all, it has the affection of the graphic design market, as well as possessing some of the coolest-looking hardware in the history of computing. But the processes Apple followed to make the current iMac, show up the many technical limitations of computer components.

Philip Schiller, Apple's vice-president of product marketing, explains: "There is industrial design and product design — they're two separate things. Industrial design refers to how it looks, and product design is to do with how it works."

"The PC industry doesn't care about the aesthetic aspects — nobody cares any more about the quality and design. All [PC] vendors do is source ready-made parts, slap them together and decide which plastic panel to stick on the front. It's the cheapest solution, so they think it's the best. There's no innovation any more. Apple is about innovation."

It's not just Apple employees doing the shouting. Mark Armstrong, head of Sydney design agency Blue Sky Creative (claim to fame: the Sydney Olympic torch) is also mad about Apple's achievements.

"It's only really Apple that has looked at the overall configuration of components — what do people want on their desks? How can we make it elegant? How can we provide more desk space? You have to use industrial design not just for aesthetics, but to gain other benefits as well."

He says PC manufacturers seem to be missing the point. "All that's been done in the PC world recently is superficial styling. What was a beige box is now a charcoal grey box with a silver detail panel on it. But it's still the same sort of thing."

The new iMac harmonises industrial and product design. Its polished stainless steel neck swings, pivots and rotates with ease and precision, suspending the 15in flat panel faithfully wherever your fingers direct it to go. The small dome-shaped base houses the entire PC, including a 5.25in CD (or combo) drive and power supply with active fan cooling — no small feat considering that the base measures only 10.5in in diameter. A whole new motherboard design was required that follows the circular shape of the base and allows room for ports at the back as well as clearance for the drive and processor. Design details even extend to the underside, where a brushed aluminium panel — removable for access to the RAM — hangs on to the fastening screws so you don't lose them when upgrading your RAM.

Where the original iMac was turned around from concept to shipping product in a brief 10 months, the new iMac's gestation period was far longer — two years, in fact. So why the hold-up? Vice-president of industrial design for Macintosh Jonathan Ives

*Mark Armstrong: "All that's been done in the PC world recently is superficial styling."*

explains: "The easy part was knowing that we were going to use a flat-panel display. The hard part was figuring out how. When you look at the design now, it seems so simple, so obvious, but as usual the simplest, most efficient solution has been the most elusive."

During his keynote speech at Macworld San Francisco in January, Steve Jobs explained that iMac's new two-piece (or three, counting the neck) design was not the first choice. The company tried to create a computer that resembles a flat-screen TV.

"We could've taken a hacksaw to the iMac [so it just had a flat screen], but there are some fatal flaws to this approach. We'd have had to put the logic boards parallel to the display on the back of it, which means the connectors come out on the side, making the worst kind of cable mess right in front of your eyes. And even worse, we'd also have to turn the drives on the side. Particularly optical drives — they can't run at full speed on the side. You have to slow them way down, then the performance goes way down — you can never fit a SuperDrive in there. So this approach is far from great.

"Rather than glom these things together and ruin them all with a lower performance computer and a flat screen that isn't flat anymore, why not let each element be true to itself? If the screen's flat, let it be flat. If the computer wants to be horizontal, let it be horizontal. It's got superior ergonomics to anything we've ever built — I dare say, to anything anyone's ever built. And it has a beauty and grace that's going to last the next decade."

Even if it doesn't, Steve, we're still impressed.

***Simon Tsang***

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# IMMACULATE CONCEPTION

*There are two FireWire and three USB ports (plus two more on the keyboard) for plugging in digital video cameras, printers, Apple's iPod MP3 player, extra disk drives and more.*

*No more eyestrain. The 15in flat screen rotates 180°, tilts, and moves up and down.*

*Inside is a custom-designed circular logic board.*

*Add extra memory or a wireless card by removing the access cover underneath. Screws are captured so you won't lose them.*

*Sick of clunky speakers taking up precious desk space? These mini 18-watt speakers are not only tiny, but they also look ultra-cool.*

*The iMac's "halo" (the see-through plastic frame), invites you to touch the screen*

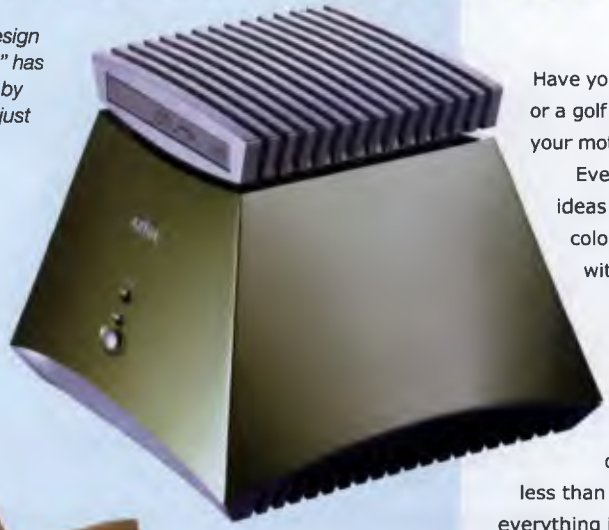
*The stainless steel arm also doubles as a handle.*

*SuperDrive burns DVDs and CDs.*

*The domed base measures just 10.6in across.*

*Photography courtesy of Apple*

# DESIGN DREAMS



*Created by Ziba Design for Intel, the "Aztec" has a footprint of just 8 by 8in and a height of just under 7.5in.*

*The "Titan's" modular design connects external peripherals such as CD drives, ZIP drives and USB hubs, without the need for data cables.*

*Despite the dubious retro styling, this Intel/ Hewlett-Packard effort makes great use of flat-screen technology.*

Have you ever wondered why your PC can't look like a sunflower or a golf ball? Why your monitor can't fold up and slide in beside your motherboard? What about matching a PC to your bedroom?

Every year computer makers tantalise and tease us with ideas such as these — weird and wonderful shapes and colours that have us salivating. So why are we still stuck with the beige box?

The answer lies under the hood. As demonstrated with Toshiba's Tecra project, PC makers spend most of their time fitting together internal electronics. Some components can't be too cramped or they'll overheat. Chips must be positioned within certain distances or they'll fail. Sketching the new iMac took less than a day, but it took two years for engineers to fit everything inside the white dome-shaped shell.

Are PC makers now breaking free from these limitations? Three important breakthroughs in recent years could mean big changes in PC looks in the near future. The first is technology. A few years ago the flat-panel iMac would have been too expensive, even for cashed-up Apple fanatics. Flat screens are still expensive, but they're much more affordable. Hard drives, batteries and keyboards are also getting thinner, allowing designers to start thinking about tablet PCs, where the battery and CPU are hidden behind the screen.

The second breakthrough involves design tools. Computers can now be built onscreen. Mark Armstrong, of Sydney design firm Blue Sky Creative explains: "What CAD has done is empower industrial designers. We can now see what the product is like way before we have a sample or built a prototype. We can visualise in CAD very quickly what an object is going to look like before it exists."

Third, manufacturing plants are going high tech. High-tech plants, like the one used for Microsoft's Xbox, can just as easily tailor a handheld computer or a computer game console — they're built from the same circuit boards. Costs decrease so customisation is possible.

Douglas Tomkin, from the University of Technology Sydney, says automated factories are rapidly moving towards a situation where it's just as cheap to customise each product. "It actually makes very little difference whether you produce one of the same or 100 of the same. The cost difference is not so great." When that time comes, Tomkin says PC buyers will see a lot more choices when it comes to colour and shape.

Perhaps aware of these changes, PC companies are now throwing open the doors to their futuristic design labs, places once kept as a closely guarded secret from the public. Companies like Compaq now show corporate customers through their studios looking for comments and suggestions. Even non-PC makers like Intel commission designs like the ones on this page to show off to the world. It's a promise of what's to come. ■

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# 2002'S BEST TECH BETS

*APC* TIPS FIVE TECHNOLOGIES SET TO CHANGE THE BIZSCAPE FOR 2002.

BY DAVID BRAUE

*After years of selling all manner of technology to companies eager to gain a competitive edge, vendors face a conundrum this year: their customers just aren't buying as much as they used to.*

*Analysts are predicting that business spending on information technology will either remain steady or drop this year. Last November, Gartner & IT Soundview's Spending Confidence Survey (which polled more than 1,000 executives) found that 59% had underspent on their year 2001 budgets, which rose just 2.5% in 2001 compared to the year before.*

*That's a far cry from the 8% budget growth the respondents expected at the beginning of 2001, yet it's still nearly double the growth expected this year, when IT spending is predicted to grow just 1.5%.*

*So what does all this mean for you? Simply put, your business is going to have to do more this year with less.*

*If you're a small business, the problem is even more serious, as your IT budget is smaller than the big guys' and your revenue stream more likely to fluctuate widely in uncertain economic times.*

*This means weighing potential investments even more carefully, looking for faster returns on your investments, and approaching some speculative investments with caution. It may also mean you stop listening to the claims of the tech salespeople who have been forcefully pushing CRM, ERP and all manner of other three-letter acronyms.*

*Take your time figuring out how the available technologies match your own business needs. There are many options when choosing technologies to improve your business this year, but if you're not sure which ones*

# B2B

Forget everything you've heard about the death of ecommerce. If you're running a business today, you simply must look online to manage as many parts of your business as you can.

We're not talking about the large-scale B2B exchanges that were intended to create massive online bazaars for all manner of goods. Those once heavily funded ventures quickly fell onto hard times when it became clear that businesses weren't yet interested in committing their product supply to unknown vendors.

Where you will do well, however, is in working with your key suppliers to take advantage of the work they've already done to go online.

The benefits for you include a streamlined purchasing process, faster delivery, fewer opportunities for errors compared to suppliers transcribing your orders, and better visibility of your shipments. This can quickly mean big savings as it saves your staff wasting time in long phone queues. It can also lead to better prices, if you can work with partners to aggregate orders and negotiate larger volume discounts. Many hotels, for example, combine their demand when purchasing fresh vegetables and meat so they get better overall prices for each location.

Logistics companies now offer increasingly sophisticated online package tracking that allows you to query Web sites to figure out who signed for what and when. They may also be willing to collocate some of your stock in their warehouses, so you can use the Net to send an electronic message instructing them

This also extends to internal purchasing; office supplies, stationery, PCs, recruitment services, mobile phones and many other products can all be purchased online through members-only portals run by forward-looking suppliers. If your partners don't offer an online interface that goes deep into their administrative systems, you should consider changing suppliers.

Going online isn't just about better purchasing. While large companies usually have complex administrative systems already set up, smaller businesses may not be so sophisticated. If you fall into the latter category, make sure you're using Internet banking to handle your accounts, pay bills, and schedule payments to suppliers and employees.

Share trading is best done online, and an increasing number of superannuation administrators now allow you to manage your employee superannuation contributions over the Internet. There is also a continuing push to move complex government and private tendering processes online, and you may benefit significantly by participating in those efforts. Also, get in touch with your peak industry body to find out whether it's worth looking into one of the many industry-oriented exchanges that are enjoying moderate success by focusing on a specific area.

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# WIRELESS

You've heard the promises more than once. You're probably pretty sceptical by now about everything that's being said about the possibilities of wireless data communications and wireless networking.

However, there are some good reasons why wireless technology — whether it be mobile phones and handhelds, or the use of radio waves instead of physical networking cables — should be high on your list of spending priorities this year.

The main reason is that Australian carriers finally seem to be getting their act together when it comes to GPRS (general packet radio service). This is an add-on to the existing GSM mobile phone network that delivers data in packets at speeds of up to 45Kbit/s. Because they use data packets instead of treating data as a voice call, GPRS phones look like other Internet-connected devices and operate at respectable speeds.

GPRS services are charged according to how much data you use — a much better approach than that taken by WAP (wireless application protocol). Pricing has been a major reason the once-deafening roar of excitement over WAP is now just a whisper. WAP calls are charged in 30-second blocks and sessions often last many minutes. Usage rates are still low, and many companies have turned their backs on this technology due to lack of customer interest.

It's not just the cost that's turned people off. It can take up to one minute to set up a WAP call, and by the time it's happened, you'll be lucky to transfer data at just 9.6Kbit/s. This was fast in 1990, but is agonisingly slow today. WAP's clunky user interface is nothing like the Web that we know and love, and it really doesn't offer much to general business users.

GPRS has been live on Australia's mobile networks for over a year now, but it's been irrelevant to most of us as next to no GPRS-capable mobile handsets have been available in this country. Things have changed rapidly since November, however, when Optus brought the GPRS-ready Nokia 8310, Siemens ME45 and Siemens S45 phones to the local market.

Now that handset subsidies are a thing of the past, you're going to need a good reason to shell out for these babies. How about seamless access to your company data from your mobile phone? You could log on to your network, retrieve and write emails, run Outlook or any other Windows app using a thin-client application like Citrix MetaFrame, and access your intranet to check the status of your customers' current orders — all while standing in their foyer. And since GPRS is available wherever your mobile phone works, coverage isn't an issue.

If you don't like squinting to read complex Windows apps on your mobile's 2in screen, just wait a little longer. Later in the year, we should finally start to see GPRS-capable handheld PCs, which combine the reach of GPRS with a larger colour screen and the flexibility of the Palm OS or Windows Pocket PC operating systems. Sit down with your mobile sales rep to find out just what they can offer, and when. Odds are, you won't have to think too hard to find a way your workers could benefit from continuous access to information.

Faster and more capable third-generation (3G) wireless networks running at 2Mbit/s should be on the market by the end of this year. They'll eliminate speed issues altogether, and you could really turn some heads when you figure out what to do with all that bandwidth.

There are also some wonderful things brewing on the wireless LAN side of the business, which has grown rapidly since the IEEE 802.11b (Wi-Fi) standard allowed wireless networks to run at 11Mbit/s — equal to the speed of standard office networks.

Even if you have just a small number of notebook or handheld PC users in your office, consider whether setting up a wireless network might make life easier for them. Instead of forcing sales reps to retrieve new customer emails by sitting down and plugging in their notebooks, you could install a wireless network which lets their computers automatically download new email, newsgroup messages and application updates in the time it takes to walk from the car park to reception.

Technically, the process is quite simple: just hook up a wireless base station to any point in your network, install wireless PC Card modems in the computers you want to connect, and you're up and running. Intel, 3Com, Cisco, Netgear, D-Link, Proxim and Lucent Technologies all offer robust wireless LAN equipment at what have become quite reasonable prices. Expect to pay from around $600 for a wireless LAN access point, and from around $240 for each PC Card adaptor.

This year, things are hotting up even further as equipment makers battle over which standard should be the successor to 802.11b. Standards bodies recently approved the 802.11a specification, which boosts data speeds to 54Mbit/s, but is not backwards-compatible with existing 802.11b gear.

Later this year, however, we should see a rush of products supporting the competing 802.11g standard, which also offers 54Mbit/s but will be backwards-compatible with current gear.

Whether you want to use it in the field or in the office, wireless technology is definitely going to make a difference to your business.

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# COLLABORATION

Good communication keeps businesses running smoothly and employees happy. Email is a simple way to deliver fast, effective and useful information to everyone who needs it, but it's not the only way. There are lots of other communications technologies that don't always get the attention they deserve. This year, you should definitely give them that attention — there are a few gems that could make your life much easier.

Instant messaging (IM) should be at the top of your shopping list. Once a novelty for far-flung groups of Internet enthusiasts, IM has risen to become one of the fastest-growing methods of communication in the world. Tens of millions of users rely on IM to track friends, workmates, relatives and others when they're online, and odds are the same technology could improve communication within your company.

Given the broad distribution of Microsoft Messenger, AOL Instant Messenger and ICQ, many of your employees are probably already using IM for personal communications. In November, Internet research firm Jupiter Media Metrix found that use of IM in offices had doubled since the previous year to 4.9 billion minutes per year in the US alone. During that time, the number of workplace users had risen 34% to 13.4 million.

By encouraging laggards to sign up, and by maintaining a central register of your workers' instant messaging handles, you can turn this technology into a real business tool. If you're particularly security conscious, look into Lotus Sametime, which gives you more control by hosting the IM server on your own network.

Project teams may benefit the most from the technology, since it lets each member of a team track whether their coworkers are in the office and available for talking. Two or more members can easily begin a discussion, and bring in additional people as necessary. Extending your internal IM to include your customers can be a smart strategy as well, since it can give customers a constant indication of when their relationship manager is available.

IM could potentially eliminate telephone tag and unnecessary meetings, which are particularly annoying when teams are geographically dispersed.

Better still, mobile network operators are starting to partner up with IM providers to bring mobile phones into the equation. This will allow you to send instant messages in the form of SMS (short message service) messages to anyone via their mobile. They can then answer your questions at their convenience, even if they're out to lunch or in the middle of a meeting.

If you're moving to Windows XP, IM will quickly become a part of your company's life, whether you like it or not. The new Windows Messenger, which allows voice and video calls as well as instant messaging, is ever-present — so you might as well use it.

Text messaging isn't the only new communications technology worth looking into. Although they're antiquated, adding a newsgroup server to your intranet is an excellent and cheap, albeit rudimentary, way of helping employees discuss areas of interest in an open forum.

Voice over IP (VoIP) was long ignored due to early reports of its poor quality, but it has improved to the point where its quality and performance are more than adequate.

VoIP installations vary widely based on each company's structure, but their general objective is to move phone calls onto the data network so that phones and PCs can both be managed using the same intuitive IP tools. Some companies use VoIP between their PABX and their wide-area network, allowing phone calls to be carried between offices as data, or to jump off the network as local calls using a VoIP gateway installed at branch offices nearest to the destination calling area.

In other cases, VoIP runs all the way to the handset on your desk, which is replaced by an IP handset that works with the IP-enabled PABX. Travelling workers can also connect over the Internet, make IP phone calls from their notebook PC, and appear as if they were on an internal company extension.

To be fair, installing VoIP isn't for the faint-hearted. But if you pick a good implementation partner, you should be able to get a relatively painless solution that quickly provides big savings and frees you from the cost of dedicated PABX equipment forever.

Last but certainly not least are enterprise portals, a fast-emerging sector of the market that allows employees to access masses of data and applications through a single intranet site. Portals are an instant productivity tool as they automatically customise themselves to show only the information necessary for each person's needs.

This means human resources staff could have access to payroll and employee rating systems, while manufacturing workers would only be able to access demand planning and equipment monitoring software. Both groups of workers could also get an updated dashboard view showing the performance of their particular division, and of the company as a whole.

Usability is the key to enterprise portal success. It's a great way of putting all your information resources in one simple interface, and with careful planning, you should quickly see the benefits.

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generation d

# WINDOWS XP

Like it or not, participating in the information age means you've got to continually re-examine and update your technology. The last time the world went update-crazy was in 1999, in the lead-up to Y2K. Most of the attention was focused on upgrading business servers and server-based applications; many companies held onto PCs that were Y2K compliant to defer spending on new desktops.

Not even the launch of Windows 2000 convinced many companies to take the plunge, but with Windows XP now well and truly established in the market, you've lost your last excuse not to upgrade. It's time to knuckle down and decide which version of the operating system is going to benefit you.

Microsoft has been pushing Windows XP for its improved graphics, video and audio-handling capabilities, but businesses should be more concerned about XP's back-end architecture, which is much better than previous versions of Windows. An improved version of Windows 2000's core technologies, it's much more robust than the Windows 98 or Millennium Edition desktops. Crashed applications rarely bring the system down, and it's easier to lock down desktop systems to a standard configuration that prevents people from stuffing up application icons, task bars and so on.

There are also remote-control tools for remote desktop troubleshooting, better application uninstallers, self-healing features to make sure the operating system remains intact, and a bunch of other goodies that make XP worth considering. Compatibility is good, although you'll want to check carefully to make sure your key applications can run in the new environment. You'll have to purchase new antivirus and low-level system software, however, so factor that cost in when considering your move.

Although it may sound expensive, putting in an XP solution this year could make things a lot easier — and cheaper — next year and beyond. It's early days yet, but we reckon that over the long term companies will save much more than the upgrade costs by not having to call in technical support people to reload desktop images and resolve niggling problems. Drop by **www.forbes.com/xpcalc** to estimate the potential return on investment (ROI) from a move to XP.

The only reason you may want to hold off is if you've recently bought new PCs loaded with Windows 98 or Me. Given the cost of the new operating system, and the potential cost of upgrading RAM and processors to support XP, the most economical way to upgrade is probably to buy the OS installed on systems that you know have enough grunt to handle it nicely.

It may still be a while before before new systems depreciate enough to justify an upgrade. On the other hand, newer systems may have enough power to run XP without costly upgrades.

If you've been tightening your purse strings but still want to improve things, consider installing the free Linux operating system on some desktops as an alternative to Windows 98 or Me. Linux runs extremely well on older PCs, and has robust built-in Internet support. Combine it with Sun's free StarOffice desktop productivity suite — which is compatible with Microsoft Word, Excel and other documents except for the most sophisticated and esoteric functions — for a free desktop environment that's more reliable and secure than the ones you're running now.

Most enterprise applications now run over intranets, so application compatibility isn't an issue any more. This means Linux users should be able to access pretty much everything their Windows-using peers can simply by using Netscape Navigator. For employees who do little more than word processing, spreadsheets and browsing the Web or company intranet, this kind of Linux-based desktop should be more than adequate and a lot more reliable. Desktop management tools such as Caldera Volution provide centralised management capabilities which will ease future upgrades and application rollouts.

***THE MOST ECONOMICAL WAY TO UPGRADE IS PROBABLY TO BUY XP PREINSTALLED.***

Linux is also an important factor on the server side, where it can be a good alternative to Windows 2000 servers and the upcoming Windows 2002 — Microsoft's server version of Windows XP. Only you can decide whether it's suited to your business, but the continuing growth of Linux within the business community confirms that it's an important issue to look at this year. With Linux's kernel now supporting multiple processors and massive amounts of RAM and storage space, it's a seriously good choice in situations where you only need basic file sharing, print management or Web server.

If you don't want the cost and complexity of a full server upgrade, consider server appliances from companies like Sun Cobalt, Intel and Cisco. These can provide lower-cost, hands-off solutions that add specific features to your network. They save on the licensing cost of a Windows server, and provide enough robustness for many basic uses.

# DIGITISATION

We've been hearing about the death of the paper office for as long as the desktop computer has been around. Use this year to go more digital. Some very well-established technologies can help you convert paper notes, customer files, sales rep scribbling, and the many other written sundries that accumulate over time into easily archived digital versions.

Document management software, from companies such as Hummingbird's PC DOCS division and Tower Technologies, use a fast scanner to stock a massive database that stores and indexes every piece of mail and every form coming into the company.

This kind of digitisation quickly pays off by virtually eliminating lost time from dealing with disorganised files and piles of office paper. When customer service representatives need quick access to customer files, the systems can be a major time-saver as they eliminate the time it takes to find the right filing cabinet, retrieve the customer's file, and call them back. Files can be pulled up instantly and annotations saved along with the document.

Faxes are another big contributor to the paper flood, but a minimal investment can fix the problem by using a more flexible and powerful computerised fax server.

Since every modem sold today can send and receive faxes, the only thing you need to provide is fax server software such as RightFax, HylaFax, GFi Faxmaker, ZetaFax and Symantec's WinFax Pro. All allow faxing from any desktop PC, and can receive and forward incoming faxes to their intended recipients. Many support more than one incoming line, allowing you to keep separate fax numbers for different departments but handle all the incoming messages through the same server.

The advantages of fully digital faxing are many. Obviously, the faxes you send will be far better quality than the typical handwritten, blurry faxes that so many of us produce. Many programs also include optical character recognition (OCR), where they scan through the documents' contents and archive them as tiny text or Word files. Once your paper documents are in this format, it's easy to make them completely indexable using intranet search engine technology.

In the long term, the real advantage of digital faxes is that they can be seamlessly integrated into your email system. Received faxes are typically emailed to their recipients as TIF files, which can contain multiple pages and be viewed on any Windows or Mac system.

Unified messaging systems from Openwave, Tornado Development and other companies can automatically convert incoming voicemails to WAV or compressed files. Those files are then emailed to the appropriate person, who listens to them using their PC's built-in media player. Emailed fax and voicemail messages can be handled like any other email — forwarded, printed or separated from the email and archived.

If you're a small business with only one fax machine, consider replacing it with a virtual fax from companies such as J2 (**www.j2.com.au**, from $10 to $25 a month) or mBox (**www.mbox.com.au**, free — but you must retrieve messages on the Web). Both companies give you a local phone number that receives faxes and voicemail messages. J2 also allows you to obtain a mailbox in over a hundred cities around the world, making it simple to set up virtual branch offices that make overseas customers think they're dealing with a local company.

Combining fax, voicemail and email into the same system is known as unified messaging, and with a bit of planning you can use it to make some dramatic productivity and organisational improvements. It's especially good in companies where PAs seem to spend half their day forwarding faxes and phone messages to executives travelling overseas. Use unified messaging instead and you can send the messages to a Web-based email account and the itinerant exec can get them anywhere in the world.

While you're making the move away from paper, it's also a good time to review your document-handling business practices. Double-handling is less than ideal in any situation, but when you're having to type information into a computer as well, it's nothing but wasted time. Also look at procedures such as filing and approvals, to see whether having content digitised might help remove a few steps and speed things up.

If your business relies heavily on images, make sure you have a method for storing and indexing high-quality digital scans. This includes putting large storage arrays online so images can be pulled down as needed by every worker in every situation.

Handling and publishing digital images, or any other type of content, is well managed by the dedicated content management and personalisation software available from companies such as Vignette and Broadvision. Careful discipline and effective procedures, however, can deliver much the same results without the expense.

Basically, the goal in all of your digitisation efforts is to remove employees' dependence on other people to get their job done. After all, delays in requesting files, waiting for documents to be archived, chasing up missing information that's sitting on someone's desk, and other manual tasks, introduce massive and unpredictable delays into your business processes.

By converting everything to digital format and using technologies such as intranets, online storage and email, it's possible to remove these delays and give all employees instant access to everything they need to get their job done. ■

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# WEB CAREERS

## SIFTING THROUGH

BY PHILIPPA YELLAND

PROFILE
RONNIE CHAN

Between 1989 and 1993, seven young men and women from three different countries were tortured and murdered in and around the Belangalo State Forest, two hours south-west of Sydney. NSW State Police used a locally developed data mining application called NetMap to search for patterns and matches in State vehicle records, gun licences and internal police records. Agencies as diverse as CentreLink, the Registrar of Births, Deaths and Marriages, and Land Titles Office were all sources of data that were "mined". Over four months, data analyst firm NetMap progressively narrowed the suspect list down from Australia's then population of 18 million people to just 230 individuals, and finally to a shortlist of 32 suspects that included Ivan Milat, who was later convicted and jailed.

Data mining is one of the least-understood "new" areas in IT careers. It is based on turning the information companies already have into commercially valuable information. The process is called "mining" because, like goldminers, data miners are confident that extremely valuable veins of knowledge are hidden in the aggregate of what looks like dull, boring archived data. Typically, this involves heavy-duty statistics, pattern recognition, artificial neural networks and recently discovered algorithms.

Most large enterprises capture huge amounts of data every day, but few are mining it. As more managers learn about the potential hidden in their databases, the demand to exploit these assets is growing. As a career, data mining is akin to forensic science with a touch of challenging detective work thrown in.

Why are the stock losses in a certain retail store so huge? Is it just a bad year, or is there a pattern of fraud? Is insider trading on the stock exchange occurring? According to NetMap's founder and research director, Dr John Galloway, these questions can be answered by data mining professionals with the right tools and a powerful computer.

***"MY CLIENTS ARE THE ULTIMATE PRAGMATISTS — MARKETERS LOOKING TO PINPOINT CUSTOMER SEGMENTS AND PREDICT BEHAVIOUR PATTERNS. I DEVELOP MODELS THAT REVEAL HOW TO TARGET WHOM."***

*Ronnie Chan was finishing a BSc in business operations and controls at the University of Salford in Manchester when a 14-month course module spent at the local IBM plant led him to decide on a career in IT.*

*"Data mining might seem like a huge jump from a BSc, but quantitative courses such as maths, computer science, statistics and economics helped." Since 1986, all his work has been in IT.*

*Melbourne-based Chan describes data mining as a collection of techniques which uncover hidden trends and patterns in data. He works as a senior IT specialist in IBM's DB2 team, mainly building predictive models for telcos and big financial concerns. For most businesses, the aim of data mining is to provide a business advantage.*

*What telcos call customer "churn", financial institutions call "attrition". Chan designs models that identify those customers most likely to leave. "Successful data mining implies broad commercial knowledge. This avoids mathematically correct predictions that don't make business sense."*

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AS BUSINESSES REALISE THEY NEED HELP TO KEEP UP WITH AN OVERLOAD OF INFORMATION, DATA MINING EXPERTS ARE INCREASINGLY IN DEMAND.

# THE STATS

Gartner Group predicts that within 18 months, consumer-intensive industries that use EFTPOS — supermarkets are a good example — will use data mining models to predict customer preferences. They also suggest that there will be a four-fold increase in the number of data mining projects as large companies struggle to maintain and improve good customer relationships. According to IDC, business intelligence tools and services (the polite face commercial data mining likes to wear) will be a $24 billion market by 2005.

Large companies that are currently struggling to manage and maintain 3TB-sized databases (one terabyte is equal to 1,000 gigabytes) will have to contend with 300TB in the next five to 10 years. That's when data mining will really take off.

The big data analyst names are already slugging it out. Galloway (a former jackeroo turned ABC journalist) lists NetMap competitors as Ascential, Cognos, Computer Associates, Business Objects, CorVu, EDS, IBM, JD Edwards, MIS AG, Oracle, PeopleSoft, SAP, SAS Institute, Seagate and SPSS.

Data miners are the SAS of the IT industry, and it's not a job for beginners. Demand is strong for people who have the technical skills combined with business knowledge. "To produce useable results, data miners must draw on advanced analytical approaches such as predictive modelling, association discovery and sequence discovery," says Computer Associates' business manager Peter Norris.

"To this shopping basket of skills, add an investigative mind and enthusiasm," says Concord Communications' managing director Darren Adams. "Above all, a good data miner must be persistent."

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| **MANAGEMENT** | |
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| Chief information officer | $120,000 to $200,000 |
| **SPECIALISTS** | |
| Technical author | $40,000 to $80,000 |
| Pre-post sales support | $40,000 to $100,000 |

Source: Hays Personnel Services Salary & Recruitment Survey 2001

## IT LOYALTY MISSING

Ten sectors were polled and the IT industry had the highest number of disloyal workers.

| | |
|---|---|
| IT workers who are disloyal to their boss | 15% |
| IT bosses who are disloyal to their employees | 30% |
| IT workers who think the workplace is less loyal than five years ago | 12% |

Proportion of IT workers who believe that:

| | |
|---|---|
| Open and honest communication fosters loyalty | 48% |
| Mutual respect fosters loyalty | 46% |
| A big paycheck fosters loyalty | 4% |
| Frequent pats on the back foster loyalty | 2% |

Source: TMP Worldwide

*Data management is the fundamental data mining skill. Often data arrives in an unsuitable form and the data miner's job is to make it useable. "Choose a database to specialise in, then get to know it thoroughly," suggests Chan.*

*Typical data mining jobs pay six-figure salaries. Chan believes the required blend of skills makes good data miners a rare breed and believes Australians may have a unique edge due to the work of University of NSW data mining guru Professor Ross Quinlan. He invented the C4.5 and C5.0 algorithms that have become the basis of the world's data mining industry.*

*For Chan, meeting customers from diverse industries is exciting. "My clients are the ultimate pragmatists — marketers looking to pinpoint customer segments and predict behaviour patterns. I develop models that reveal how to target whom."*

*"Most data mining is business-oriented, but there are also scientific projects such as decoding the human genome, detecting early warning signs of disease and predicting environmental or weather patterns."*

*Artificial intelligence neural networking is one of the most successful data mining methods, but is also the slowest and most expensive. The enormous computer networks need training, just like people. Banking is one of the few sectors able to afford the powerful supercomputers required. Typically, a neural network is retrained every fortnight when the bank's data mining models are recalibrated.*

*Chan, 36, is currently completing a Masters in Applied Science in IT. He sees data mining as multiskilled: "A good practitioner should have skills in three areas: IT, maths/stats and business."*

*He recommends a computing degree with data management and statistics coupled with knowledge of marketing terminology and business processes.*

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## INDUSTRY PROFILE

### ADAM GINSBERG

*Adam Ginsburg, one of the founding directors of global Web solutions specialist Presence Online, is seldom still.*

*As the Sydney start-up's "roving director", he's spent most of the past seven years building a global integrated Web development and software business: "Initially that involved getting to the forefront of global developments in ecommerce content management and integration. Then it was about overseeing the establishment of offices in Boston, Los Angeles, London and Mexico."*

*Now, it's about growing international business — which is how this 30-year-old UTS BSc (Computing) graduate gets his highs. He's happy to travel if it means building an international presence.*

*The company has just attracted a second round of German venture capital worth $7 million. "First-round funding was used to gear up corporate infrastructure and open new markets," he says. "Now, the focus is on consolidating gains and growing international business."*

*Ginsburg is concentrating on developing content management and integration solutions using Domino and Java (J2EE) platforms. He's also focusing on strategic global alliance activities, which have involved the buy-in of groups such as British Airways and Alcatel, which use the company's Aptrix product.*

*Ginsburg attributes his understanding of the business challenges facing enterprise customers and solutions partners to his mix of:*

- *tertiary qualifications;*
- *technology background (as a Westpac developer),*
- *creative experience (as an advertising agency technical director),*
- *hard-yards training (as the founder of a fractal imaging company),*
- *personal involvement in constructing and delivering solutions.*

Industry experts suggest these basic requirements for prospective data miners:

- data management skills;
- maths and statistics; and
- business process understanding.

Darren Morris, general manager of IT ManPower, has a more specific list:

- Microsoft Visual C++
- Unix
- Java
- Client/server SQL
- Relational databases
- TCP/IP

Human resource skills are essential, according to Bob Olivier, head of Olivier Recruitment. "Data miners have to work with many departments across an enterprise, from HR to marketing, so communication and project management skills are essential."

Data mining is not offered as a single tertiary degree; at present, it's taken up by more experienced IT workers. Degrees and subjects that are good stepping stones include pure and applied maths, statistics, computer science, engineering, operations research, business admin, marketing, information management, data modelling and data warehousing.

The general pattern among those working in the area is one of unexpected moves sideways. For example, David Banks, now NetMap's business manager, completed a mechanical engineering degree and then worked for IBM and CPS Systems. Later, he worked in customer relationship management within the insurance industry. He happened to review a technical brief of NetMap's product, was very excited by it and moved laterally to join the NetMap team.

Data mining is still confined mainly to business heavies such as banking, finance, telcos and retailing. Telstra recently paid $250,000 for SPSS's Clementine software, in the hope its investment will pay off through better marketplace and customer database knowledge. Roger Levy, group manager of the forensic and special investigations group, says, "We're already seeing a return on investment through productivity improvements and an ability to target aspects that need special attention." ■

**STATES OF UNHAPPINESS**

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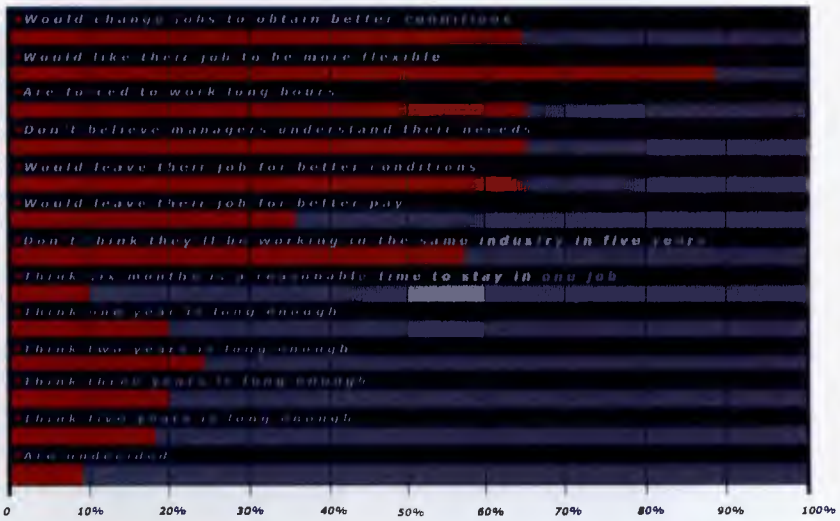


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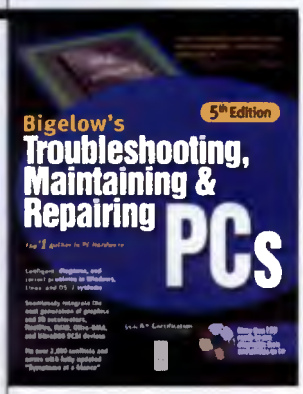
Comprising over 1,500 pages and a CD-ROM full of shareware diagnostic tools, it is an extensive resource, covering every conceivable piece of hardware, from CMOS batteries to video capture cards. Operating systems are also covered, as is some antivirus software.

The book tries to cover every conceivable PC problem, conflict, error or failure, but it is impossible to do justice to all these areas. There is an amazing amount of information, but the sheer volume of material is a little overwhelming.

***Publisher*** *McGraw-Hill*
***Price*** *$99.95*
***ISBN*** *0072132728*

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The 10 authors are experienced ColdFusion developers. Early sections cover high availability, monitoring system performance, software and hardware load balancing, clustering and security.

Later sections are more detailed, covering advanced application development and extending ColdFusion. There are three appendices containing language and modelling references, as well as the XML DTD.

The numerous examples, extensive code listings and clear diagrams ensure that ColdFusion programmers will find something relevant. New users should try a less advanced title.

***Publisher*** *Macromedia Press*
***Price*** *$105.95*
***ISBN*** *0789725851*

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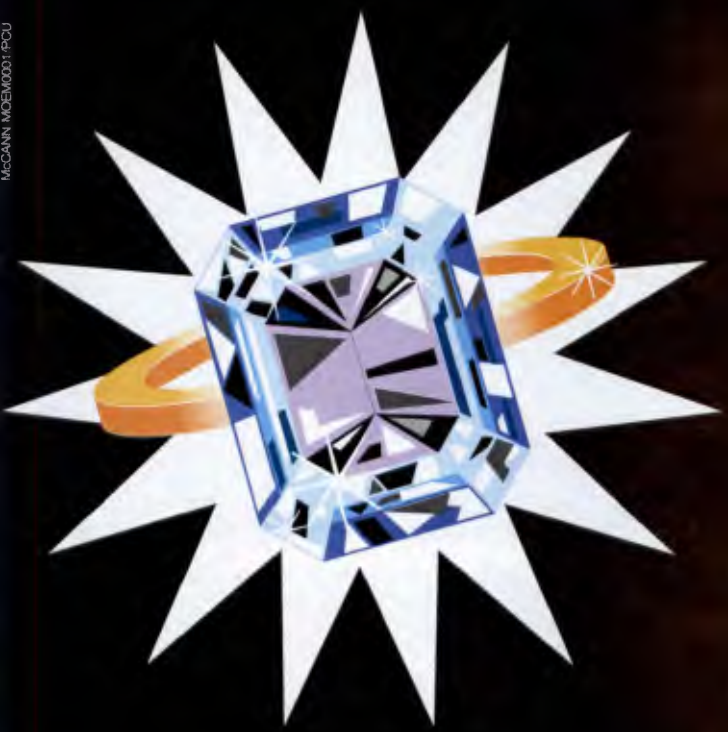

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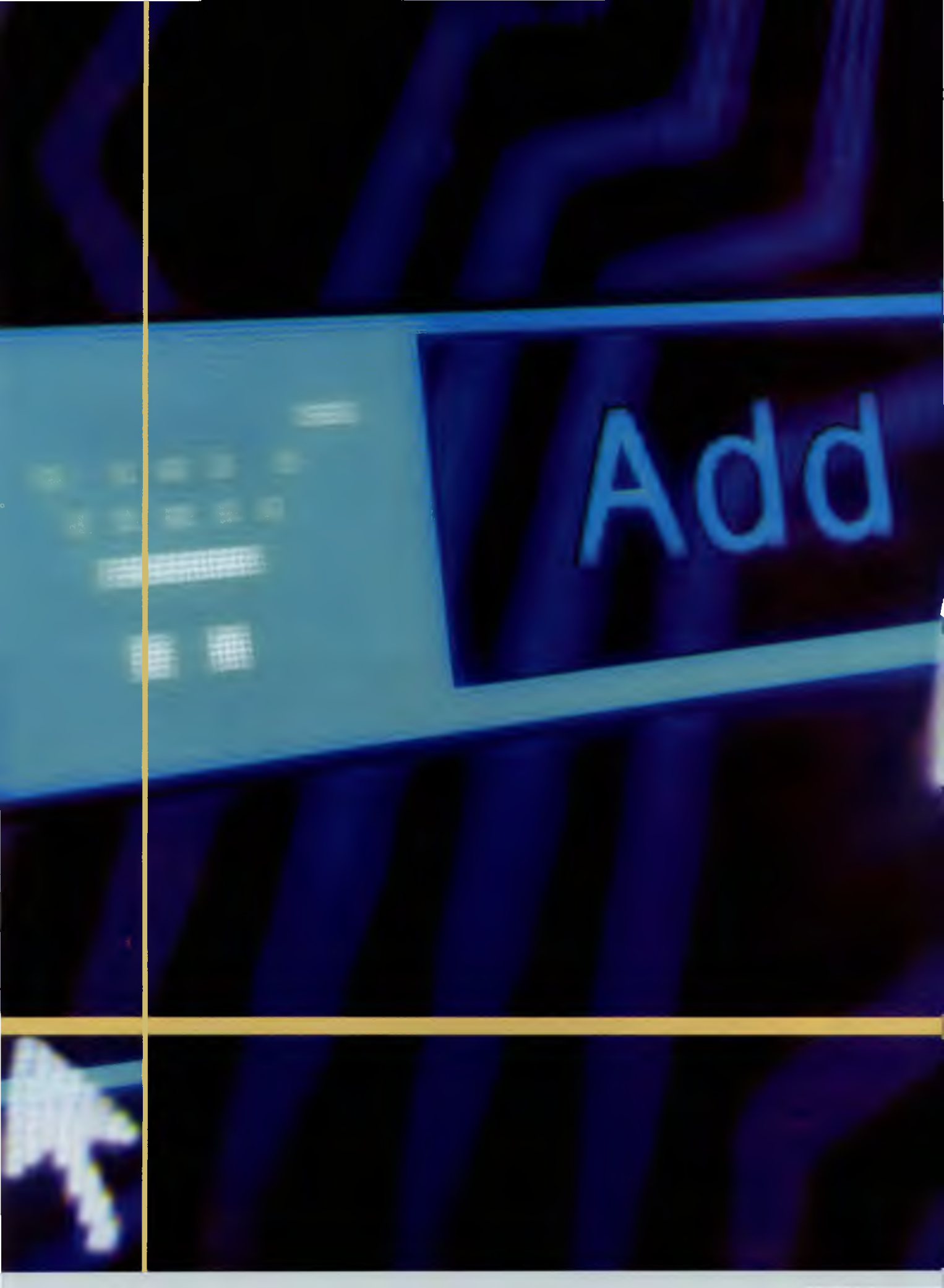
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MONDAY 7 JANUARY 2002, SAN FRANCISCO. WHAT, A WHOLE NINE MONTHS UNTIL CHRISTMAS? IT'S TOO LOOOONG! MACWORLD 2002 SHOWCASED A BASKET OF TASTY NEW APPLES.

BY SIMON TSANG

**THE MOOD IN THE MAIN AUDITORIUM WAS ELECTRIC AS** 6,000 Mac fans, media and VIP guests stampeded into the hall to get the best seats in the house. The show? None other than Steve Jobs' two-hour keynote speech to kick off Macworld 2002 in San Francisco's Moscone Centre.

This much anticipated event had been the subject of intense speculation and rumours. Apple fuelled the hype itself in the week leading up to the expo with daily changing slogans posted on its Web site — "This one is big, even by our own standards.", "Count the days. Count the minutes. Count on being blown away.", "Beyond the rumour sites. Way beyond.".

Expectations raised incredibly high, the auditorium sat keenly in dim light, gazing upon a brightly lit, sparsely populated stage occupied by two glowing Apple logos on either side of a large screen. Four Apple flat-screen monitors sat on a long table to the right of the platform facing the audience, while on the opposite end, a small desk and chair positioned side-on to the crowd accommodated a single display and a Power Mac underneath, awaiting Apple's charismatic CEO, Steve Jobs.

When he finally wandered on to the stage, there wasn't the sudden hush or dazzling flood of spotlights I was half-expecting. Absent too were the constipated monkey-dance shenanigans of Microsoft's Steve Ballmer bopping to the tune of "Get on your feet". Instead, Jobs strolled casually on to the scene, in a manner befitting his trademark turtleneck sweatshirt and jeans. The audience nonetheless responded with cheers and applause, eyes glowing with adulation. He needed no introduction — not to this throng of Apple faithfuls. Jobs could have unveiled a new translucent cup holder and the audience would still have gone wild. Unlike any other PC show, the attendees aren't just there to see what's new; they're also there to celebrate the religion of the Mac.

Thankfully, though, cup holders were nowhere to be seen, and Jobs was visibly excited about what was in store. The proceedings kicked off with an update on sales of the iPod. Official figures place it at 125,000 units shipped between 10 November and 31 December last year — a positive result by any means. Considering that the iPod has memory, a processor, an LCD screen and a whopping hard disk capacity, there may be more plans to come for Apple's first foray into peripheral computing since the Newton's demise in 1998.

Jobs then went on to proclaim that 27 Apple Stores were open in the US by the end of 2001, although only 25 had been planned. The success of these stores is crucial to Apple's determined intention to woo the other 95% of computer users

away from the "dark side" of Windows, and they are intended to show non-Mac users just how easy and pleasant the Mac environment can be. So far, 40% of Apple Store patrons have not been Mac users, which is a good sign for Apple.

The third-party presentations then came thick and fast, beginning with Adobe's demonstration of InDesign 2.0 and the company's affirmation that "we will bring all our applications, integrated, on to Mac OS X". This, of course, included a live demonstration of the long-awaited Photoshop 10 (a staple application for the majority of Mac users), due midyear.

This was very welcome news to Mac users around the world — you could almost hear Jobs himself breathe a sigh of relief. He didn't pass up the opportunity later, however, to take a joking stab at the delay in bringing Photoshop to the OS X platform.

Palm followed with a similarly belated release of Palm Desktop 4.0 for Mac OS X, which promises improved synchronisation, and import and export support for vCard and vCal files. This is another important step towards acceptance of OS X. Pocket PC support is also confirmed to be in the works.

The demonstrations and announcements rolled on, among them Mathematica 4 and new game titles from Aspyr such as Harry Potter and Spiderman. Every vendor in turn pledged their undying support for Mac OS X. Even a videotaped message from George Lucas, testifying to just how much easier Macs and OS X has made his life, was thrown into the mix.

To round up the affirmation of backing OS X, Jobs announced that all Macs shipped henceforth will boot up with OS X instead of OS 9 as default.

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- *Drag and drop partitions*
- *Undelete partitions*
- *NTFS merge*
- *Large drive support (80GB)*

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www.acapacific.com.au

The "Digital Hub" message was then reiterated and illustrated onscreen by a large circle containing a computer, surrounded by four smaller circles, three of which are occupied by a peripheral device. The missing piece? Digital photography. That was the lead-up to the release of Apple's fourth digital hub application: iPhoto. This all-in-one photo management software streamlines the process of acquiring, organising and then displaying images.

iPhoto allows for easy cataloguing by organising your downloads into "film rolls" and albums. Thumbnail views can be scaled simply by using a slide tool, and modifications to the image can be undone at any time as effects and edits aren't applied directly to the original image. You are also able to display the photos in a slideshow to background music. Allowing you to print and lay out photo albums is nothing new, but iPhoto is linked to an Apple-hosted site that lets the user upload and display an online album. And you can order prints directly online through iPhotos, as well as a hardbound copy of your digital photo album.

Jobs allowed ample time to show off iPhoto's display capabilities as he presented a slideshow of images, head nodding to the beat of the background music, and observing the audience as if to gauge any reactions.

Next in line was a 14in-screen addition to the iBook range. As the new flagship iBook, it will carry a DVD/CD-RW combo drive, 256MB of RAM and a battery life of up to six hours. It retails at $3,995, with the 500MHz and 600MHz 12.1in models dropping to $2,795 and $3,395 respectively.

The announcement everyone was waiting for, of course, was the next generation of Apple's most successful model ever — the iMac. In his typical showmanship form, Jobs announced each key feature incorporated into the new iMac one by one. The biggest crowd-pleasers were the fact that it's a G4-based machine, incorporating a SuperDrive. My ears are still ringing from the guy sitting next to me screaming "Yeah!" in response to every nugget.

That done, Jobs stood back and watched as a small stand rose from the stage and midway revealed a small, white, desk lamp-shaped object. The new iMac's design is nothing short of stunning, and now adopts the G4 processor with the Velocity Engine, as well as nVidia's GeForce2 MX to handle graphics. Its form consists of a dome-shaped base attached to a 15in flat panel display via a polished stainless steel neck. It blew all the rumours out of the water. Available in three configurations, the top model, with an 800MHz G4 CPU, SuperDrive and 60GB hard disk, will initially cost $4,195.

For the next five days of Macworld, delegates roamed the stands — the exhibition spanned two blocks. Everything from photography equipment to books were on display; merchandising included T-shirts from past Macworlds, which I'm assured are collectors' items. The area that seemed to draw the most traffic and attention, however, was the games. With show specials running hot, crowds flocked to see the latest titles running on OS X.

The holes in application support for OS X are fast being plugged; the traditional arguments against the new platform are becoming less valid.

Macs are ready for the mainstream. That's the message you came away with after Macworld San Francisco 2002. How quickly that becomes reality now rests in the hands of third-party developers and, to steal the words of Apple's most memorable ad campaign, the willingness of the public at large to "think different".

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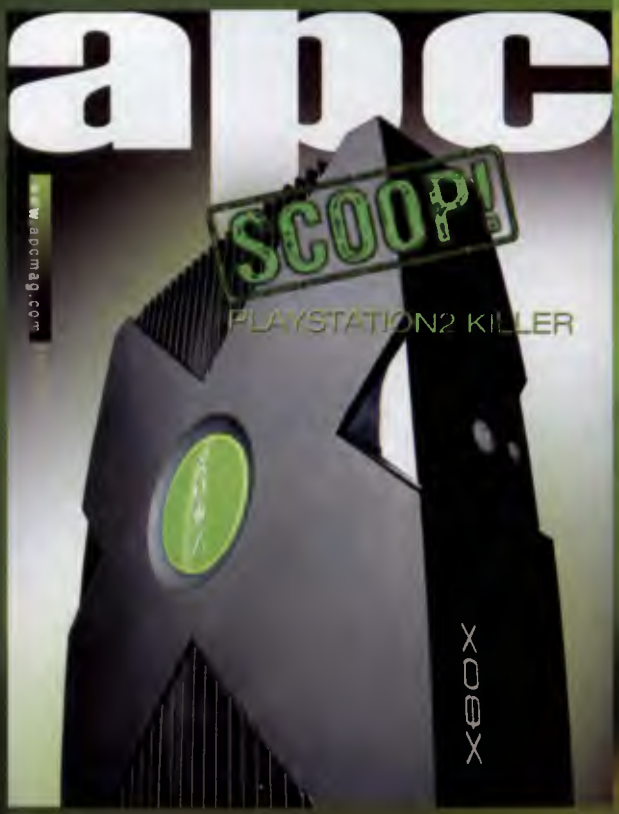


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## APC GETS UP CLOSE WITH THE NEW iMAC

It bops, swings and can shake its bon bons better than most. No, we're not talking Ricky Martin. We're talking about Apple's new iMac, which, in its promotional video, bounces away to music and has more personality than Judge Judy. The new iMac is indeed the quintessential Apple. It embodies all that Steve Jobs has been saying a personal computer should be. It's compact, stylish and ergonomic, has a lush operating system, and now that iPhoto is released, is about as complete a digital hub as any off-the-shelf system can be.

On paper, the iMac's specifications rival its desktop counterpart, the Power Mac G4. Now powered by a G4 processor with Velocity Engine in 700MHz and 800MHz flavours (Power Macs are available in 733MHz, 867MHz and dual 800MHz), it has ample grunt to move beyond being just an Internet terminal (from where the "i" in iMac was derived). In fact, for those who are not really interested in the expandability headroom provided by the Power Mac G4, the iMac is now more than capable as a serious workstation, and a far better value proposition in terms of features.

For instance, the top of the line iMac comes equipped with an 800MHz G4 processor, 256MB of SDRAM, a 60GB hard drive, a DVD-R/CD-RW SuperDrive, and of course, its 15in TFT flat panel display, for $4,195. An entry-level Power Mac G4 running at only 733MHz and upgraded to a similar spec (with only a DVD-ROM/CD-RW combo drive, as the SuperDrive isn't available as an option on this model) relieves your bank account of $6,083. This includes adding a 15.1in Apple Studio Display and a set of Apple Pro Speakers that come standard on the iMac.

No doubt the Power Mac G4 desktops will characteristically experience a price reduction as the next generation G5 is released, which will reduce the price discrepancy. For now though, the iMac introduces G4 processing to a whole new price bracket — and audience. This is even more true of the base model, which lists at $2,995 (see chart below for comparative specs and pricing). In case that's still more than your budget allows, the original iMacs will still be available alongside the new for a short while, at a reduced price.

So is the new iMac really that good? Possibly better than you think. To see it is one thing, to use it is an entirely different experience. Although some photos show off its articulated stainless steel arm and screen at various positions, they can't convey the ease and smoothness with which it operates. Requiring only a light touch rather than a firm grab, the floating flat panel display is finished with a transparent "halo" surround that invites you to move the screen just for the sake of it. The angelic theme is also carried to its frosted snow-white casing — the only colour the new iMac is available in.

The hemisphere dome in which the PC sits measures only around 10.5in in diameter, but incredibly finds room for a full-sized optical drive concealed behind a flip-down cover for the CD tray. This operates in a similar fashion to the drive door on the Power Mac that is pushed open by the tray via a button on the keyboard. Two sets of vents are clearly visible from the outside: at the top of the dome, and along the circumference of the base. As warm air is dispelled though the top, this leaves the vents at the bottom for its air intake (perhaps a questionable design element if your desk happens to be dusty).

Combined with Mac OS X, which now ships as the default boot-up OS on all Macs, the new iMac is without a doubt the cutest, if not the coolest all-in-one computer to date.

### iMACS: OLD VERSUS NEW

| Model | iMac G3 | iMac G3 | new iMac G4 | new iMac G4 | new iMac G4 |
|---|---|---|---|---|---|
| Processor | 500MHz | 600MHz | 700MHz | 800MHz | 800MHz |
| Memory | 128MB | 256MB | 128MB | 256MB | 256MB |
| Hard disk | 20GB | 40GB | 40GB | 40GB | 60GB |
| Optical | CD | CD-RW | CD-RW | DVD-ROM/CD-RW | SuperDrive |
| Display | 15in CRT | 15in CRT | 15in TFT | 15in TFT | 15in TFT |
| Price | $1,895 | $2,195 | $2,995 | $3,495 | $4,195 |

PC

# TOM CLANCY'S GHOST RECON

FIRST-PERSON SHOOTERS JUST GOT A WHOLE LOT MORE REALISTIC . . . NOT TO MENTION HARDER. *By Jason Hill*

Rainbow Six was a revolutionary game when it first appeared. It was far from perfect, but it introduced gamers to a new kind of first-person shooter — one with gritty realism, tactical planning and one-shot kills. After numerous add-ons and pseudo-sequels, Red Storm has finally produced an all-new first-person combat game, and it's an exciting experience.

Players are thrust into battlefields set in the near future, and must control a squad of six "Ghosts" — soldiers who have earned their nickname through their expertise in stealth.

At the start of a mission you select your squad and weaponry, but unlike in Rainbow Six, there's no planning of tactics. Instead, after you receive your objectives, you head straight to the battlefield, where you can control any member of your squad and devise commands for the rest of your soldiers as you progress. Your six soldiers can be split into teams of up to three, and commands include setting waypoints, holding position, advancing and engaging enemy troops. It's a reasonably comprehensive system, but not as effective as it could be. This is mainly due to the fact that the artificial intelligence for your squad members is limited, while the combat is ruthless.

It's an extremely tough game that can get frustrating. Your enemies are cunning and if you step on a twig or show your face from behind a bush even for a split second you can be killed instantly.

Nevertheless, this is an extremely engaging tactical shoot 'em up with thoughtfully designed missions. Take into account the wide range of multiplayer options and Ghost Recon becomes an even more enticing package. Anyone interested in a high-quality military combat experience should march to their local store and requisition a copy.

***Online*** *www.ghostrecon.com*
***Price*** *$89.95*

## FLIGHT SIMULATOR 2002 PROFESSIONAL EDITION

Flight simulation fanatics will find FS 2002 worth every penny of its $150 price tag — it's packed with everything FS 2000 has, plus a better graphics engine, great aircraft physics and numerous little touches that enhance the game.

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***Online*** *www.wizardry8.com*
***Price*** *$79.95*

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PlayStation 2

THE THIRD PLACE

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PS2

# METAL GEAR SOLID 2: SONS OF LIBERTY

WITH THE RELEASE OF METAL GEAR SOLID 2, VIRTUAL TACTICAL ESPIONAGE HAS ATTAINED AN IMPRESSIVE NEW LEVEL OF INTERACTIVITY.

*By Kevin Cheung*

Metal Gear Solid 2 isn't just the most highly anticipated game for the PlayStation2, it's the sequel to one of the most innovative titles of the PSOne. In the original, the hero, Solid Snake, foils a terrorist attempt to hold the world to ransom using a bipedal nuclear weapon, the Metal Gear Rex. Now a lone villain has sold the blueprints on the black market, so the nuclear monstrosity is available to anyone.

The game starts when a military ship carrying a prototype counter-measure to the Rex — the Metal Gear Ray — is intercepted. Snake's mission to infiltrate the ship is complicated by the entry of a Russian military group, which is also after the Metal Gear Ray. This splits the game into two missions linked by a political conspiracy.

As a game of tactical espionage and stealth, Metal Gear Solid 2 is without peer. You're required to remain wary of environmental effects that may alert guards to the hero's presence. For example, footprints shouldn't be carelessly left after walking in the rain or through a pool of blood.

Several analog-based functions allow you to peek around corners or over obstacles. Pressing the shoulder buttons when your back is against the wall, for instance, lets you lean past the corner. How far you lean depends on how hard you press the button.

Finding good hiding spots is also central to the game. You can crawl into ventilation shafts, hide under shelves, or even lock yourself inside a locker. Your cover can be blown in many ways, from accidentally leaving a foot in plain view to sneezing after being out in the rain. In these cases you must use your firearms to defend yourself.

The level of realism achieved is extraordinary. If you want to locate infra-red lasers, shoot a fire extinguisher so that the propellant highlights the beams. Better yet, find a pair of infra-red goggles. Commonsense is the key to success.

This polished game is must-buy material for PlayStation2 owners.

***Online*** *jpn00.konami.co.jp/products/mgs2*
***Price*** *$99.95*

## POLICE 24/7

This innovative light-gun game features a seeing-eye camera that detects when you're ducking for cover, leaning to the side, or coming up for a shot.

***Online*** *www.konami.com*
***Price*** *$99.95*

## TONYHAWK PRO SKATER 3

Blisteringly smooth, with improved visibility and bigger tracks, this sequel will truly impress skateboarding fans. Online connectivity via a USB modem allows massive multiplayer skate tournaments.

***Online*** *www.activisiono2.com*
***Price*** *$99.95*

## REZ

The funkiest groove-a-thon space shooter. Players take the form of a wire-frame hero that's trying to hack into a computer system. Lock-ons, discharges and explosions are synchronised to a great selection of trance, techno and dance.

***Online*** *www.capcom.com*
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# DOCTOR WHO
## VENGEANCE ON VAROS

*DOCTOR WHO*, THE BBC'S CLASSIC CULT SERIES, HAS MADE IT TO DVD, AND IT'S GOT EVERYTHING A FAN COULD WANT.

*By Matt Overington*

Since the BBC released the *Doctor Who* series on DVD, the legions of dedicated fans who grew up on weekly doses of the doctor and his compatriots escaping from hordes of Daleks have been able to relive the adventures.

This release features two hour-long episodes starring Colin Baker, who was the sixth actor to play the role of the Doctor (for three seasons, from 1984 to 1986).

### AUDIO

One of the attractions of *Doctor Who* is the somewhat haphazard audio and visual effects. The DVD's audio is presented in Dolby Digital, and although it is clear and crisp, it lacks depth. As a bonus, you get to watch the scenes with the unmixed soundtrack direct from the studio (sans sound effects or music). This adds to the eerie feel of the show, but it's probably only of interest to die-hard fans.

### VIDEO

All the footage on the DVD is in its original format for television, with a 4:3 aspect ratio. The footage has been converted to DVD from the original master recordings, so the quality is superior to that of broadcast television and VHS.

The raw nature of the *Doctor Who* series, and the fact that it was all shot on an extremely tight budget, is highlighted by some of the costumes. However, the alien that appears on this release — Sil from Thoros Beta — is one of the best characters ever created by Tony Snoaden, *Doctor Who's* costume designer.

### EXTRAS

*Doctor Who* is one of the most successful and loved British television shows of all time, and "Vengeance on Varos" contains a number of extras that hardcore fans will appreciate.

Snippets of footage are included, such as the original BBC1 trailers for both parts of the episode, first aired in the UK in 1985, and 10 scenes that didn't make it into the final cut. Also included is an image gallery which contains pictures taken during the recording of the episode. When viewed alongside the "making of" video, you get a good impression of what it was like on the set. ■

***Price*** *$34.95*

**AN AMERICAN** WEREWOLF IN LONDON

This cult classic has finally been released on DVD, and the extras should keep even the most rabid fans happy. The movie tells the tale of an American student backpacking through Europe, who is inadvertently attacked by a werewolf and becomes one himself.

***Price*** *$39.95*

**HE DIED WITH A** FELAFEL IN HIS HAND

Danny (Noah Taylor) lives in share house hell. This irony laden comedy is adapted from John Birmingham's best-selling novel of the same name. While the DVD offers little in the way of extras, the strength of the actors and script are worth a second watch.

***Price*** *$34.95*

**THE FAST AND** THE FURIOUS

Vin Diesel stars in this formulaic yet entertaining street-racing flick. The film's saving grace is its action scenes — they're slick and well-crafted, and (gasp) even original in parts. The DVD features director's commentary, a "making of" feature, deleted scenes and even DTS sound.

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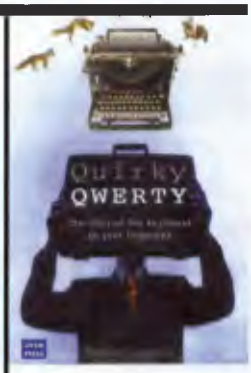
***Publisher*** *UNSW Press*
***Price*** *$24.95*
***ISBN*** *0868404365*




## PROMISCUOUS CUSTOMERS: INVISIBLE BRANDS

According to the authors of this book, the Internet is "fatally flawed" in its ability to create substantial and sustainable value for customers or businesses. Meaning and trust are what we crave online, and those who ignore our needs will be destroyed.

***Publisher*** *John Wiley & Sons*
***Price*** *$49.95*
***ISBN*** *1841121592*

*FULL REVIEW ONLINE*

## THE PERSONAL INTERNET SECURITY GUIDEBOOK

Internet security is not usually the first thing PC beginners tackle, but this title places it safely in their realm while still leaving much for the intermediates. Although it has a hefty price tag, this is a true reference book and the authors are well credentialled.

***Publisher*** *Harcourt Australia*
***Price*** *$109.45*
***ISBN*** *0126565619*

*FULL REVIEW ONLINE*

*For full reviews, visit* ***www.apcmag.com/books***

### HOW DID NOKIA REDEFINE ITSELF TO BECOME THE WORLD LEADER IN MOBILE PHONES? *By Cathie Kennedy*

"Until the 1980s, Nokia was a Finnish company; in the 1980s, Nokia was a Nordic company; and in the beginning of the 1990s, a European company. Now, we are a global company" — Jorma Ollila, president and CEO, Nokia Corporation.

In just over a decade, Nokia Corporation has emerged from relative anonymity outside of Finland, its country of origin, to become the world's largest supplier of mobile phones. This book, subtitled "The Story of an Extraordinary Company That Transformed an Industry", tracks the company's remarkable transition from a small forestry company in 1865 to the monolith it is today. It also takes a look at its role in the development of second-generation digital cellular technology.

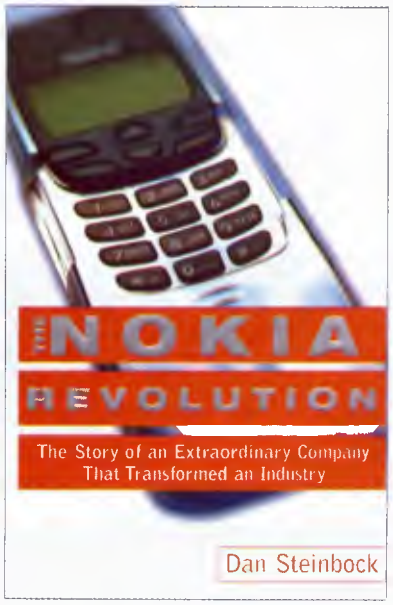
*The Nokia Revolution* is a fascinating study of the company's evolution, and provides plenty of valuable insights into the historical and environmental factors that have affected Nokia during its history. Author Dan Steinbock covers the impact of Finland's struggle against Russification in the mid-1800s and its declaration of independence in 1917; the effects of the Great Depression and World War II; and the recession of the early 1990s (the result of a profound political and economic shift away from the Cold War era to European integration). The book links Nokia's growth, development and transformation to the political and social events of the time.

Steinbock probes much deeper than the usual interviews and company press releases. Nokia's story is covered in three sections: its diversification strategy (from forestry to rubber to cable); its global strategy (telecommunications and second-generation mobile); and the mobile information society (globalisation of research and development, upstream and downstream innovation, and Nokia's "secret code").

The glossary of acronyms and definitions is unusual in this type of book, but is useful. Diagrams and models help illustrate key points.

The incisive analysis reflects Steinbock's extensive research into Nokia, Finland and digital convergence. This is a real "inside story", and one that is brimming with valuable lessons for the serious reader.

***Publisher*** *Amacom*
***Price*** *$70.95*
***ISBN*** *081440636X*

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***Daniel Gardiner***

## ANNOYANCES.ORG

**www.annoyances.org**

If you've got an issue with Windows (and let's face it, who doesn't?), this little site should help. It has tips that'll help you fix a lot of common Windows hassles, from getting Internet Connection Sharing working over a LAN, to uninstalling the entire OS. And if you're still stuck after going through the articles, you can log on to the very active forums and ask the thousands of other users for their suggestions. Very handy indeed.

***Daniel Gardiner***

## DÉJÀ VU

**www.archive.org/index.html**

Ever wanted to see what the Web looked like in the "old" days? The Wayback Machine has archived more than 10 billion Web pages going back to 1996. All you need to do is type in an address. You'll laugh, you'll cry, you'll find lots of crappy Web design. Oh yes, and there are plenty of Australian sites that you can get all nostalgic about.

***William Maher***

## TOYOTA SATELLITE NAVIGATION

**www.toyota.com.au/index_showroom.asp?forcenav=toyactive**

Take the satellite navigation system in the new range of Toyota and Lexus cars for a test drive. Tap a touch-screen embedded in your dashboard and listen as a DVD database (linked to the US Global Positioning System) guides you through every highway and byway in Australia. This Flash demo isn't the real thing, but we're lost. For words.

***Fiona Angus***

## BAD MOVIES

**www.badmovies.org**

Most of us are fans of at least one B-grade movie. Some astonishingly bad movies have become cult classics, and films like *Attack of the Killer Tomatoes* and *Ilsa, She-Wolf of the SS*, have managed to gain a following the world over. Like many of the "masterpieces" reviewed here, Badmovies.org is smattered with gore. It's the ultimate resource for schlock horror and B-grade movie fans.

***Matt Overington***

# "You need what?"

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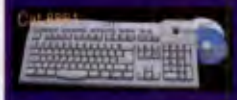

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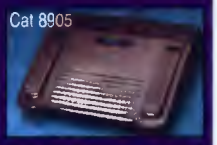


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# THRIVING IN A WINDOWS WORLD

MAC OS X MAKES IT EASY TO WORK WITH WINDOWS USERS — THEY PROBABLY WON'T EVEN KNOW THAT YOU'RE USING A MACINTOSH.

Personal computers are flexible, capable and empowering. Every day we ask them to transfer billions of dollars, connect people at opposite ends of the Earth, and decode the human genome. So why do some people behave as if two PCs trying to communicate will be struck dumb if one is a Macintosh and the other runs Windows? In reality, communicating across platforms is one of the simpler tasks that we ask of our PCs. Every day, for instance, Windows users view Web sites that were designed on a Mac and are hosted on Unix. And although there are a few cross-platform tasks that are still too difficult, the advice below will set you right in most situations.

**PLAIN TEXT EMAILS**

At the most basic level, cross-platform compatibility means Mac OS X users can send readable files to Windows users and receive files in return.

To send a simple word-processing document or spreadsheet to a Windows user, first save a copy of the document as plain text (to get rid of potentially troublesome characters like "smart quotes"). Then copy and paste the contents of the text-only document into the body of an email and send it to your Windows-using colleague.

In most word processors and spreadsheet programs, you should be able to choose Save As from the File menu and then Text Only (or similar) from a Format pop-up menu. In Excel, choose Formatted Text (Space delimited) to make the table "look right" in the body of the email (as long as your colleagues view their emails in a "monospaced" font), or choose Text (Comma delimited) or Text (Tab delimited) to make it easier for your colleagues to copy and paste the table into an Excel for Windows file — as long as there aren't commas or tabs in the actual data.

For maximum compatibility with *both* Windows and Macintosh users, compose your messages as Plain Text rather than Rich Text Format or HTML. To make Plain Text the default format for Mac OS X's Mail application, select Preferences from the Mail menu, click the Composing button, and choose Plain Text from the "Default message format" pop-up menu (see figure 1). In Entourage X (the email program and organiser included with the Mac OS X version of Microsoft Office), select Mail & News Preferences from the Entourage menu, click the Compose tab, then choose Plain Text from the "Mail format" pop-up menu.

These few steps should allow you to create a plain text email that any Windows or Mac user can read with ease, and copy and paste into a word processor or spreadsheet.

**BASIC ATTACHMENTS**

If your word processing document or spreadsheet is not simple — for example, if it contains formatting, equations or macros — pasting it as plain text into an email will not do. You need to attach the document file to an email message. Here are three tips to ensure that your attachments arrive in a useable form.

The first tip is to always give your file a Windows-style filename extension, such as ".doc" for a Microsoft Word document or ".xls" for an Excel spreadsheet. This is because Windows looks at the filename extension to determine which program to use to open attachments.

These filename extensions are not necessary on the Macintosh because it stores this information inside the file itself, in an invisible "resource fork" that Windows discards upon opening a Mac file. Many Mac users consider filename extensions ugly.

When Apple released Mac OS X, it tried to strike a middle ground between "maximum compatibility" (universal support for filename extensions) and "maximum beauty" (hide filename extensions whenever possible). Frankly,

the result is a confusing mess — it can be difficult to predict which files will carry filename extensions, which will not, and what effect this might have on your files. The simplest solution is to always use filename extensions in Mac OS X. To make this the default behaviour of your system, click on the Desktop, select Preferences from the Finder menu, then check the box marked "Always show file extensions" (see figure 2).

If, after you've done this, you notice that Mac OS X still fails to attach filename extensions when you save files in a certain program, click the "Append file extension" checkbox next time you are using that program's Save dialog box. To reveal the filename extension of a file that you created earlier, click the file's icon once in the Finder to select it, choose Show Info from the File menu, then Name & Extension from the pop-up menu, and uncheck the Hide Extension checkbox.

You can also have Entourage X automatically attach filename extensions to all attachments missing one. To do this, go to Mail & News Preferences and select the "Append file name extensions" checkbox under the Compose tab.

*Figure 2: Set your Mac to always show filename extensions.*

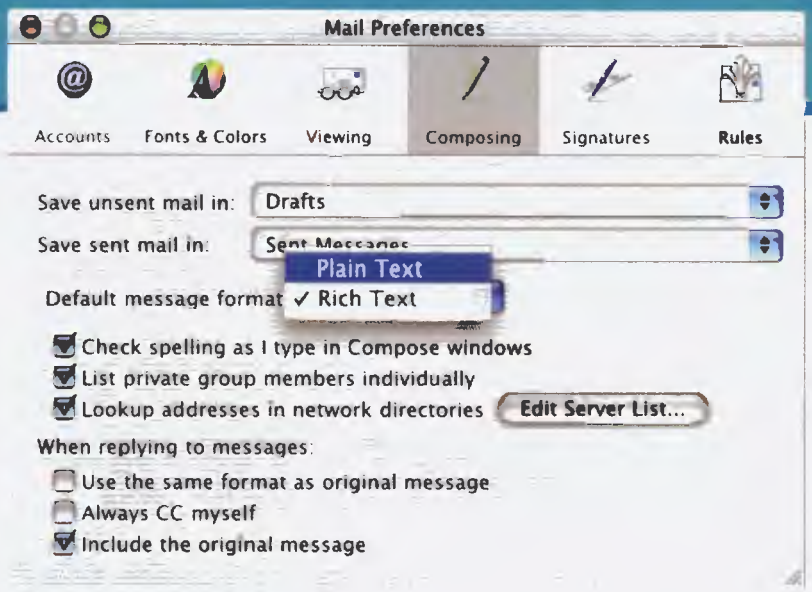


*Figure 1: You can make Plain Text the default format for OS X's mail application under Preferences in the Mail menu.*

When a Windows user sends you an attachment, Mac OS X should read the filename extension to determine which Mac program should be used to open it. If it can't find an application to open the file, or it attempts to open the file in the wrong application, there is a solution.

First, save the attachment to the Desktop (rather than opening it directly from your email program), click the file once to select it in the Finder, choose Show Info from the File menu, and then choose "Open with application". Next, click and hold the pop-up menu attached to the icon (see figure 3), and either select the correct application from the list or select Other to find the correct application on your hard disk. Choose All Applications from the "Show pop-up" menu of the Open dialog box if it won't let you select the correct application.

Once you've selected the correct application, click Change All in the Show Info window so that Mac OS X will always use the chosen application to open files with that particular filename extension. If you're unsure what program to use to open files with a particular filename extension, consult Apple's online Knowledgebase (**docs.info.apple.com/article.html?artnum=24464**) or try the File Extension Search Engine (**extsearch.com**).

The second tip is to use an attachment-encoding format that can be understood by both Macs and PCs. Our email programs automatically encode every attachment that we send or receive to prevent them being scrambled by the various servers that they must pass through as they journey across the Internet. AppleDouble sounds like it's a Mac-only encoding format, but it actually provides maximum cross-platform compatibility. If you use AppleDouble, no Windows or Mac user should encounter encoding problems when trying to read your attachments.

Entourage X encodes attachments in AppleDouble format by default, but you can check this setting by going to Mail & New Preferences, clicking on the Compose tab, then ensuring that "Any computer (AppleDouble)" is selected in the "Encode for" pop-up menu.

Third tip: only use compression formats that you are sure your recipient will understand. Anyone who connects to the Internet using a traditional dialup modem will find it slow and expensive to download large attachments, so compress the attachment (make it smaller) using a compression format that you're sure they're going to be able to work with.

The default compression system on Mac OS X is StuffIt. To manually compress your attachments using StuffIt, drag the files onto DropStuff (included with Mac OS X) before attaching them to your email. To apply this format automatically to all messages that you send using

Entourage, choose Macintosh (StuffIt) from the Compression pop-up menu, which is in the Compose panel of Mail & News Preferences.

To apply this format to all the files you've attached to one Entourage message, attach the uncompressed file, click the triangle marked Attachments in the message window to view the attachments panel, then click the button below the list of attachments to reach the area in which you can apply StuffIt compression. Entourage adds a .sit filename extension to the files that you compress using any of these methods.

Windows users can decompress these SIT files using StuffIt Expander for Windows — a free download from **www.aladdinsys.com**. Although the program is small, free and easy to use, some Windows users will baulk at having to download and install an extra program to handle this Mac-standard compression format.

If this is the case, a better option would be to compress your attachments using the ZIP format, which is ubiquitous amongst PC users. You can upgrade to the full Deluxe version of StuffIt (upgrade $60; StuffIt Deluxe 6.5 package $180; see **www.aladdinsys.com**), which enables you to compress and decompress files using almost any Mac, Windows or Unix compression format.

A cheaper option is to download ZipIt (US$20 [about AUD$38.50] from **www.maczipit.com**). When you receive an attachment with a ".zip" filename extension, drag it onto StuffIt Expander, included with Mac OS X.

## FROM OFFICE TO OFFICE

To get the best results when exchanging files across platforms, you and your Windows-using colleagues should work with equivalent application software. Often, this means you should use the Macintosh and Windows versions of Microsoft Office.

According to Kevin Browne, general manager of Microsoft's Macintosh business unit, since the release of Office 97 for Windows and Office 98 for Macintosh, Microsoft Office has read DOC, XLS and PPT files in much the same way that Web browsers read HTML files. It displays what it understands in a file, and when it encounters something that it doesn't understand, it simply skips over it instead of generating an ugly and potentially confusing error message.

For example, the List Manager is unique to Excel 2001 for Macintosh and Excel X for Macintosh. If you define a group of cells as a list in one of these programs, and then open the spreadsheet file in Excel 97 for Windows or later (or Excel 98 for Macintosh, for that matter), Excel shows every cell in the spreadsheet, but it won't indicate that some cells form a list. If the Excel for Window user modifies the file and then hands it back to the Macintosh user, the list should still be intact — unless the Windows user deleted the cells that were defined as a list.

So far so good, but sometimes you want to be sure that Windows users will see exactly what you see when they open your Microsoft Office file, and vice versa. The trick here is to avoid the few Macintosh-only features in Microsoft Office, and to ask your colleagues to avoid the few Windows-only features.

For example, anyone using PowerPoint for Macintosh should avoid embedding QuickTime movies and transitions if they want their presentations to be viewed perfectly in PowerPoint for Windows.

If you simply must embed a QuickTime movie in your PowerPoint presentation, the workaround is to export your presentation in HTML or QuickTime format, and have Windows users view it using a standard Web browser with the QuickTime plug-in for Windows, or using a standalone copy of QuickTime Player for Windows. Both are free from **apple.com/quicktime**.

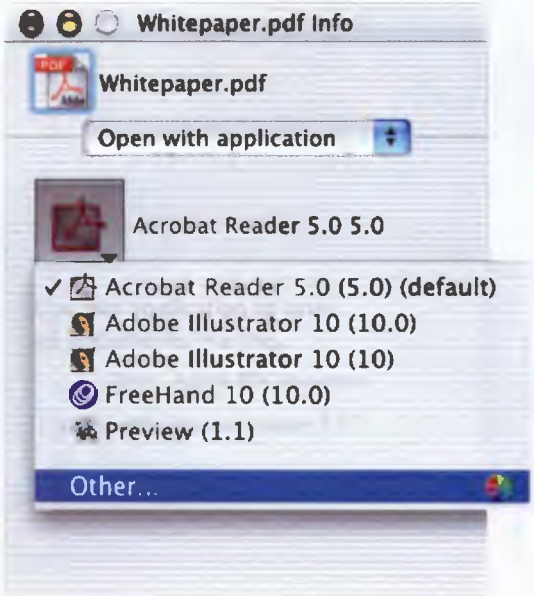


*Figure 3: You can manually select the application to open a file sent to you by a Windows user.*

### Corporate crises

In this feature, I have assumed that the Mac OS X user is working with standalone programs like Microsoft Word or Excel and exchanging files with Windows users via the Internet or an intranet. This reflects the situations in which most Macs are used — in the home, schools, small companies, and isolated departments within large companies. However, some Mac users are battling with Novell networks and Windows NT groupware and for these poor souls life can get very complicated.

Fortunately, Mac OS X and Windows both include features to simplify some of these tasks, and there is a range of compatibility utilities that can help.

For example, Mac OS X users can log on to a Windows NT server by entering the Finder, selecting Connect To Server from the Go menu, typing the Windows NT server's address in the form smb://servername/sharename, then clicking Connect and providing the username, workgroup and password. Or the network administrator could enable Microsoft's Services For Macintosh on the Windows NT server, which allows Macs to connect using Apple's legacy networking protocol, AppleTalk. There are also products like Dave, which provide Mac users with access to Windows NT servers without requiring them to memorise arcane server addresses, turning to AppleTalk, or scattering Mac-only configuration files all over the server.

For a complete description of almost every cross-platform corporate computing problem, turn to the Mac Windows Web site (**macwindows.com**).

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Other files created using Mac or Windows-specific features might display perfectly when viewed in Microsoft Office on the other platform, but be uneditable. Luckily for Microsoft Office users, there are only a handful of Mac or Windows-only features you need to avoid to eliminate cross-platform problems.

**BUILT-IN FILE FORMAT CONVERSION**

If you don't run the same programs as your Windows-using colleagues, you will have to engage in file format conversion.

In many cases, your program of choice will handle this for you — within limitations. For example, Microsoft Word can open RTF files created in TextEdit, the simple text editor in Mac OS X. However, any pictures in the TextEdit file don't show up in Word.

Likewise, AppleWorks 6.2.2 for Mac OS X, which is Apple's all-in-one word processing, spreadsheet, database, drawing, painting and presentation program ($140 from **www.apple.com.au**), can read and write files in Word and Excel format. However, it doesn't always preserve all formatting when it imports complex Word documents. For example, it stripped the horizontal rules from a résumé created in Word, the tabs no longer lined up, and second-level bullets were turned into triangle brackets. There were no text changes, and most formatting was preserved.

To use a Mac OS X program's built-in file format translation abilities to prepare a file for Windows users, choose Save As from the File menu and then select the target file format from the Format pop-up menu. To open a file that was prepared by a Windows user, select Open from the File menu and then choose All from the Show pop-up menu — this menu is called File Format or something similar (see figure 4).

Some Mac OS X programs have more file format translation abilities than those in the Open and Save dialog boxes. Under the File menu, look for commands such as Import, Export, Publish or Convert. In other programs, look in the home folder or at the vendor's Web site for a standalone translation utility.

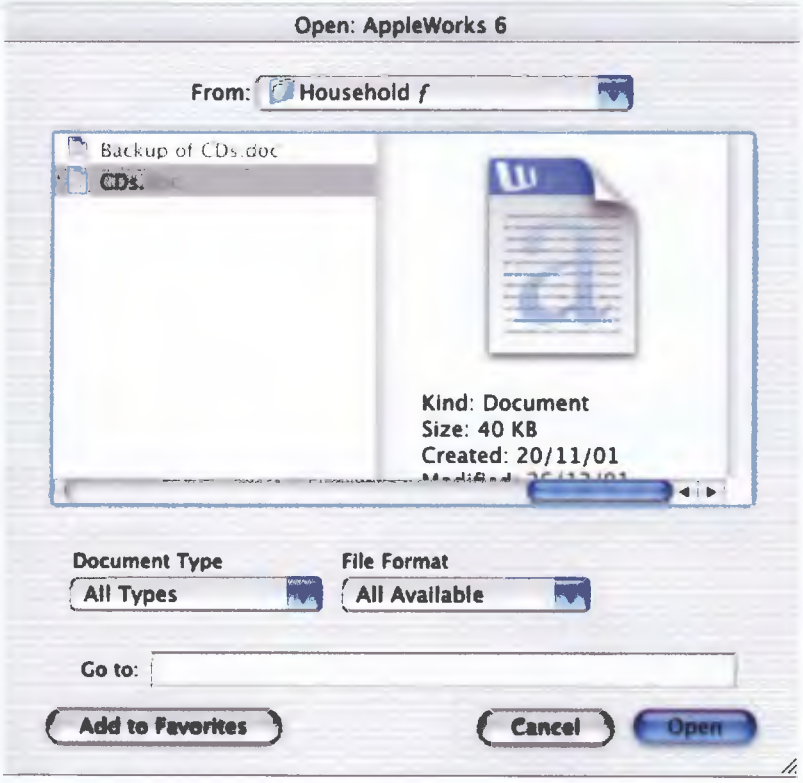


Figure 4: Use AppleWorks' built-in file format translation to open files prepared by Word users.

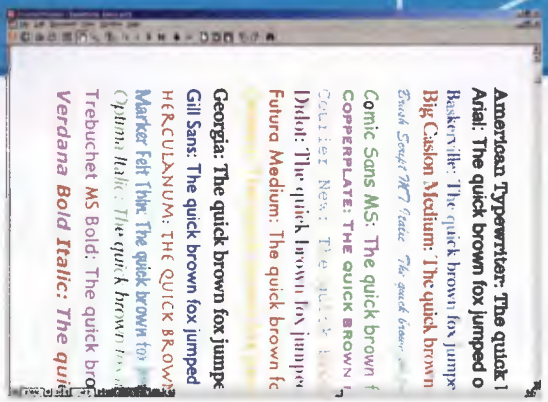


Figure 5: Any Mac OS X program can export to PDF format, and your Windows colleagues will be able to view these files exactly as you intended.

A great solution for sending Windows users an exact version of a document that they don't need to edit is to export your document in PDF format (see figure 5). Any Mac OS X program that can print can also export to PDF format, and the free Acrobat Reader for viewing PDF files is everywhere.

To export a Mac OS X document in PDF format, select Print from the file menu (you don't need a printer), then click the Preview button in the Print dialog box. Mac OS X presents you with a preview in PDF format — simply choose Save or Save As from the File menu. These PDF previews fully embed all fonts and images, so they're not small files, but your Windows-using colleagues will be able to view them exactly as you intended, even if they don't have half your fonts.

If somebody sends you a Microsoft Word document and you only need to be able to read it, try icWord, a shareware program available for US$19.95 (about AUD$38.50) from **icword.com**.

**THIRD-PARTY FILE FORMAT CONVERSION**

When these options fail, you can turn to a third-party translator such as MacLinkPlus or GraphicConverter.

Dataviz MacLinkPlus ($282 from **www.conexus.com.au**) is mainly for

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translating word processor documents, although it can also translate a range of image, spreadsheet, compression and database file formats. The number of word processor file formats MacLinkPlus can translate is truly bewildering — everything from Ami Pro to WordStar.

The main work area in MacLinkPlus is designed to simplify the process of translation for many files at once. It also allows you to specify translation filters for repeated use in the future. Apple actually licensed Dataviz's Word-to-AppleWorks and AppleWorks-to-Word translators for inclusion with AppleWorks, so using MacLinkPlus to translate a Word-format résumé to AppleWorks format resulted in the same minor formatting flaws that were noted with AppleWorks above.

When it comes to translating image files, nothing can beat GraphicConverter (US$35 — about AUD$67.30 — from **www.lemkesoft.com**). This program can read and write files in the image formats used by every platform from Atari to the Quantel Paintbox. Strangely, the one image format that stumps GraphicConverter is one of the most common — EPS. Luckily, there are shareware GraphicConverter plug-ins that can solve this problem, if you don't mind the extra expense. GraphicConverter also provides simple image editing tools and an interface for batch-converting files.

### EMULATION

If no Macintosh program can read, write or translate the file formats that are required by your Windows-using colleagues, the final solution is to run a non-Macintosh program on your Mac. There are several ways of doing this, each with its limitations.

Your first port of call should be Mac OS X's complete system-level support for Java2. If the non-Mac program that you require is available in a Java version, try running it using Applet Launcher or Java Web Start, both of which are in the Utilities folder in the Applications folder. Java Web Start provides point-and-click installation and use of Java software (see **java.sun.com/products/javawebstart**) — no more battling with Java class libraries.

If the non-Mac program that you require is not available in a Java version, look for a Unix version. You will probably be able to run this using Mac OS X's built-in Unix command line interface, the Terminal (also in Utilities in the Applications folder). Virtually any Unix program can be recompiled for Mac OS X, although this task is usually best left to the experts. To find Unix programs that have already been ported to Mac OS X's Unix core, see The Fink Project (**fink.sourceforge.net**) and Mac OS X Ports (**macosx.forked.net**).

When all else fails, consider running Windows on your Mac. Virtual PC can do this for you, although it is slow and finicky (see review in the On Test section). Despite Virtual PC's limitations, it is clearly the best option for users such as Mac-based Web designers who need to test their sites using a broad range of Windows, Mac and other Web browsers.

If Virtual PC is not for you, and the program that you require really has no Macintosh equivalent, then you will probably have to bite the bullet and use a PC, at least some of the time. However, this does not mean that it has to sit on your desk or take the place of your beloved Mac. To be able to view it through a window on your Mac's screen, look at Timbuktu Pro and Citrix.

Timbuktu Pro comes in a two-pack ($583 from **www.lidcam.com.au**); install one copy on your Mac and another on your PC, then stick the PC beneath your desk and put the monitor and keyboard in storage. The Citrix client is a free download for your Mac, but your system administrator will have to set up a Citrix MetaFrame server for your company. Sadly, the Mac version of the Citrix client is not yet Mac OS X native, but the Java client will run under Mac OS X.

There are a handful of Macintosh fans who really must use a PC as their main system. For the rest of us (and that means 99% of all Mac fans) using Mac OS X in a world of Windows should be a virtually hassle-free experience. If someone says "you can't do that on a Mac", don't take their word for it — point your Web browser at a site like VersionTracker (**versiontracker.com**) or the Macintosh Products Guide (**www.apple.com.au/mpg**) and decide for yourself. ■

***STEVEN NOBLE** is an Internet content consultant and a Mac OS X expert. He can be found online at www.metamedia.com.au.*

## MAC OS 9 ALERT

Mac OS X is quite different to earlier versions of Mac OS, but users of older systems can also survive in the world of Windows. Here are five important differences between OS 9 and OS X.

**1. FILENAME EXTENSIONS**
Mac OS 9 does little to encourage or help you to add Windows-like filename extensions to your filenames. However, it is still a good idea to do this manually if you regularly exchange files with Windows users. You can still find a checkbox in some of your Save dialogue boxes that asks whether you wish to add the appropriate filename extension.

**2. CENTRALISED FILE MAPPING**
In Mac OS 9, you use the File Exchange control panel to determine which Macintosh programs open which Windows file types. Tweak its settings if your Mac doesn't use the right program to open each file.

**3. SMB SUPPORT**
Mac OS 9 does not include built-in SMB support (see "Corporate crises", page ^^^). Therefore, if a Mac OS 9 user is to connect to a Windows server that has not enabled Microsoft's Services For Macintosh, they will have to turn to a product like Dave ($332, distributed in Australia by Macsense — www.macsense.com.au).

**4. SOFTWARE AVAILABILITY**
Because Mac OS X is so new, there are far more programs for connecting Mac OS 9 users to Windows than the handful of Mac OS X utilities that I've discussed in this article. See VersionTracker (versiontracker.com) or the Macintosh Products Guide (www.apple.com.au/mpg) for details.

**5. APPLICATION COMPATIBILITY**
Java support on Mac OS 9 is slow and patchy, and don't even think about recompiling Unix code to run on Mac OS 9 — these two options are for Mac OS X users only.

WITH SIMON TSANG

# FIRE IT UP BABY!

**HERE'S HOW TO TRANSFORM A STANDARD INTERNAL HARD DISK INTO A GO-ANYWHERE PORTABLE FIREWIRE DRIVE.**

There are almost as many ways to carry data around as there are formats to contain it. Yet how many times have you been stuck with a large file or group of files and no easy means of transferring or backing up the information? The main reason for lazy backup habits is a lack of storage — or lack of the right kind of storage which would make it a convenient task.

Superfloppies such as Zip and SuperDisk are useful, but with file sizes ever on the increase, their comparatively limited capacities are becoming less relevant to the average PC user. Small files are much more easily carried around on flash memory devices such as the IBM Memory Key. They don't require drivers on Macs and Windows Me, 2000 or XP, nor an external drive and the accompanying power adaptors (though many are now host-powered).

For larger pools of data, most people opt for CD-RW or external hard disks, which are the most cost-effective medium around at present (this doesn't include tape of course, but we're talking about convenient storage here).

If you need to use a CD-RW and an external IDE hard disk interchangeably, the Pyro 1394 Drive Kit (**www.conexus.com.au**) will definitely interest you. It functions as a housing box, an IDE controller and a FireWire (IEEE 1394) interface for any standard IDE drive. Designed to accommodate standard 5.25in internal drives such as CD-ROMs, the Pyro box also has mounting points for 3.5in drives like regular hard disks. This means you can to use just about any internal drive that has an IDE connector with the Pyro, instantly turning it into a transportable external FireWire device.

Of course, you can buy regular off-the-shelf external hard drives such as the Maxtor 1394 External Storage, but this DIY method means you aren't locked into a specific capacity or drive type. Need a CD burner on the go? Just rip it out of your PC and whack it into the Pyro box. And because it's FireWire, the transfer is extremely zippy (see "FireWire Retrofitting", page 127).

The Pyro box's internal metal casing carries the necessary electronics for the IDE and FireWire controllers, as well as the power supply unit, so you don't have to carry an external power adaptor. The rear panel has three FireWire ports, so you can daisy-chain additional devices (an extra-short FireWire cable is supplied for this purpose). It also has a cooling fan and left/right channel audio RCA connectors for CD audio.

*The Pyro drive kit is a simple and flexible way to add extra storage to your machine.*

*The rear panel provides three FireWire ports, which allows you to connect other devices to the box.*

Getting into the Pyro box is fairly painless. The translucent plastic covering slides out after removing two screws at the back. The top metal panel, emblazoned with an oversized FireWire logo, then lifts off and you're into the guts of the box. The only connections to the drive required are the IDE and power cables, and if it's a CD/DVD drive, the CD audio cable as well. A matching cover is also supplied for the front panel if you're not installing a 5.25in drive.

If you're installing a hard disk, you need to make sure that it's partitioned, formatted and ready for use before locking it into the Pyro box. You also need to check that the drive is set to Master if it's to be detected through the FireWire port. Then it's just a matter of closing the box, plugging it in and switching it on.

***Simon Tsang**, APC's technical editor, likes to work with improbably large confidential files. He's finally discovered a portable solution for these fat files that beats lugging around a hard drive. He can be contacted at **stsang@apcmag.com.***

I tested the Pyro box with an 80GB Seagate ST380020A U Series 6 hard disk which is only 5,400rpm, but its external transfer rate is already double that of FireWire's theoretical limit of 50MB/s. Copying a 1.92GB file from a Power Mac G4 took a brisk two minutes and six seconds. That roughly equates to 16MB/s — well short of FireWire's limit, but fast enough to stream media and run applications from.

For a smidgen over $300, the Pyro 1394 Drive Kit offers great flexibility for external storage, especially if you have a spare four-speed CD-burner lying around. It also means you can change the type of storage the Pyro box offers to suit any future needs. ■

**Pyro 1394 Drive Kit**

**Contact** Conexus
**Phone** (02) 9975 2799
**Online** www.conexus.com.au
**Price** $301

**FireWire retrofitting**

What if you don't have FireWire already installed? If you don't own a Mac, or haven't done any video editing on your PC, chances are you don't.

This can be resolved easily with aftermarket FireWire cards such as the Adaptec DuoConnect below (see *APC* February, page 30), which provides USB 2.0 and FireWire connectors in a PCI card. Notebooks can also be enabled with FireWire through PC Card adaptors. As all DV camcorders now have FireWire connectivity, the cards are also useful for desktop video editing, when combined with a basic and reasonably inexpensive software package.

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- Accuview Antialiasing™

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WITH DANIEL GARDINER

# TWEAK THAT GEFORCE!

**WHETHER YOU'VE GOT AN OLD GEFORCE2 OR A HOTTED-UP GEFORCE3 TI500, THERE'S MORE THAN ONE WAY TO REV UP YOUR NVIDIA GRAPHICS CARD.**

To tie in with our graphics card round-up (see page 39), we've put together this special workshop to help you get the most out of your GeForce graphics card. There are plenty of ways to crank more performance out of your GeForce. While the best of them consist of arcane rituals and ancient spells to cool your card, we mere mortals usually resort to more conventional means.

NVmax is a comprehensive program that lets you finetune your card and get access to features you'd otherwise have to hunt through your system registry to find. This workshop focuses on optimising the settings for the GeForce2 GTS and GeForce3, but it also gives a quick run-down of what each of the settings does, so you can make your own optimisations.

First, make sure you have the latest version of the nVidia Detonator drivers — version 21.83 (the most recent version supported by NVmax) is included on disc 1 of this month's CD set. Next, install and run NVmax.

The program is split by a series of tabs down the left-hand side, each dealing with a specific area of your graphics card and its capabilities. This Workshop focuses on the five sections which have the most impact on quality and performance.

Before you begin, it's wise to make a backup of your current settings in case you encounter an incompatibility with your particular system. To do this, click the Presets tab, type in a name (such as "Defaults"), and click Save. If you encounter any problems when applying a new setting, simply go back and restore the preset by selecting it and clicking Run.

Also, please note that some games (such as Max Payne) override the settings used by NVmax. So if you're not seeing any difference between one setting and the next, this is probably why.

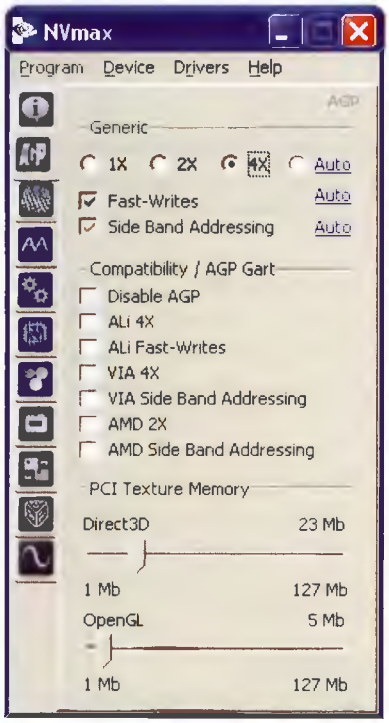
I'll break down the program section by section, starting from the top.

### AGP

This section is tricky because it's dependent on both your motherboard and your graphics card.

For the best GeForce2 performance, your AGP mode should be set to use "4X", with both Fast Writes (FW) and Side Band Addressing (SBA) turned on.

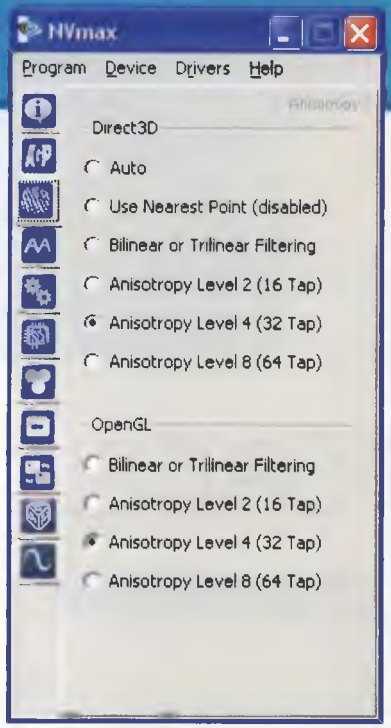
Despite the fact that the GeForce3 supports FW, nVidia has disabled it in the video card BIOS (reportedly because of stability issues). Enabling Fast Writes won't have any effect, so don't try it with a GF3. Simply leave both FW and SBA at their default settings, and make sure AGP mode is set to "4X".



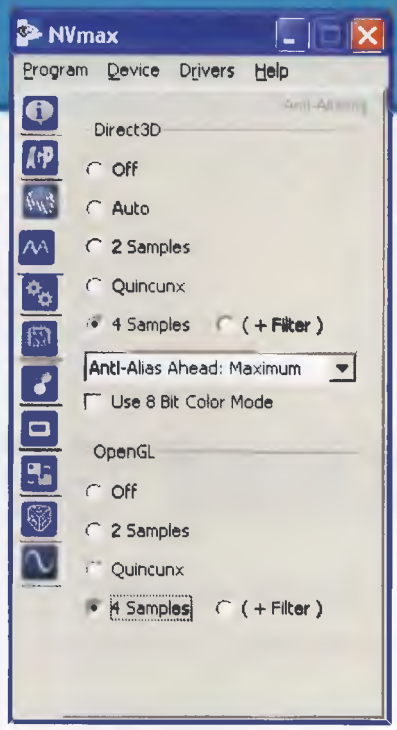

*In AGP you can sync your graphics card and motherboard to work in harmony.*

AGP 4X is the fastest transmission method for AGP devices (having your card set to AGP 2X or 1X will significantly slow down graphics data bandwidth). Fast Writes allows the CPU to send certain commands directly to the graphics card, rather than going through the system RAM first. Side Band Addressing can allow your graphics processing unit (GPU) to issue more simultaneous texturing commands.

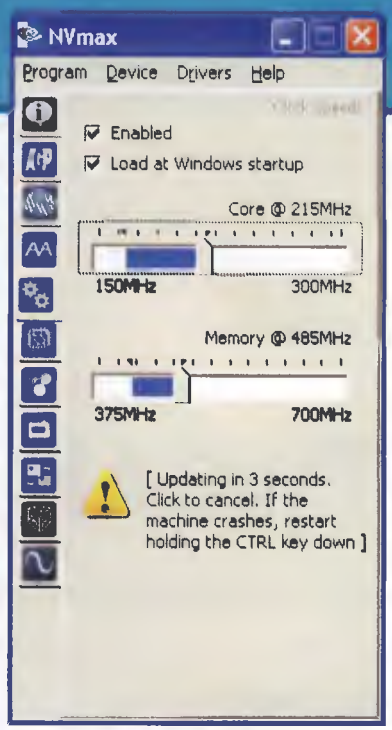
Most motherboards released during the last two years support all three of these features, but in order for AGP 4X




*Anisotropy lets you apply complex filtering routines, enhancing image quality.*




*Smooth out jagged lines with the help of anti-aliasing.*




*Overclocking can be hazardous to your card's health; stay within the blue bars.*

and Fast Writes (FW) to work correctly you've got to turn them on in both your BIOS and in NVmax. Consult your motherboard manual to find out where the BIOS settings are. SBA is usually turned on by default.

Remember that for most games, FW and SBA will only have a tiny effect on overall frame rate, and they can also cause instabilities, so don't fret if you can't use them.

**ANISOTROPY**

This section controls the quality and accuracy of texture filtering. When you are playing a game that uses 3D, you see the game world from a certain perspective. Objects that don't fall into your line of sight needn't be rendered. Texture filtering takes into account your perspective and then decides what pixels on a texture (texels) should be displayed on your monitor.

Most people who've spent a little time tweaking their 3D settings will recognise that there are two common options for texture filtering — bilinear or trilinear. These are decent but relatively basic filters that examine each texel along with its neighbours (this is known as sampling). They then decide which texels are the most visible, and therefore which colours should be displayed on the screen.

The Anisotropy section lets you apply even more complex texture filtering by taking more samples. GeForce3 owners should be able to scale up to "32 tap" in new games, and possibly "64 tap" in some older games — then you should see a huge difference in quality. Those readers with a GeForce2 are restricted to "16 tap". You can try this in older games such as Quake 3, but it will almost certainly result in poor frame rates in newer games.Additionally, switching between the trilinear and bilinear options within a game's options menu will further enhance or decrease the rendering quality.

**ANTI-ALIASING**

This gets rid of the jagged edges typical in most graphics rendering. Without anti-aliasing (AA) turned on, diagonal lines and curves within a game will appear to have stepped, rather than smooth edges. To get rid of this, you can turn on anti-aliasing to slightly blur their outline and trick the eye into thinking it's a smoother, more natural edge. Generally, the higher the AA value, the better the picture looks.

With a GeForce3, there are numerous options to choose from. If you've got a particularly beefy system you can probably set it to "Quincunx" or "4 Samples" for most games, although you'll need to balance this with your Anisotropy settings to maintain a reasonable frame rate.

GeForce2s have more limited options, and can only be set to "2 Samples" or "4 Samples". For the most part, you'll be taxing your card (and frame rate) if you set it to 4, especially in games that use large open spaces.

**CLOCK SPEED**

This is the section designed for tweaking the clock frequencies of your card — it is possible to squeeze a little extra out of most GeForces using this method. Different models use different clock speeds, and NVmax will be set to the default values for your particular make. Because they're so new, GeForce3 owners should have very little reason to overclock their card; they're already great performers. However, readers with GeForce2s might find their PCs struggling as the resolution gets higher, and a little clock speed tweaking can help alleviate this.

*Set up V-Sync to reflect your hardware's capabilities.*

Something to keep in mind when you do this is that you'll get a bigger performance increase from overclocking your RAM than you will from the core. But it's usually necessary to turn up the core clock to balance this.

To overclock, click both "Enabled" and "Load at Windows startup". You'll notice that the sliders down the bottom now work, and that there's also a blue area marked on each bar. This is the "safe" area for overclocking, and you'd be wise to stay inside this limit if you don't want to seriously damage your card.

When increasing your RAM speed use 5MHz increments, and use between 2 to 3MHz for the core. With each jump, test the system to make sure it's stable and there are no rendering problems. You can do this by playing a graphically taxing game for 15 minutes, or better yet, run 3DMark2001 (also included on disc 1 of this month's CD set) and watch for screen artefacts.

**V-SYNC**

This limits a game's frame rate to the vertical refresh rate of your monitor. By default, most monitors update what you see onscreen 60 times a second. Certain games can cause rendering issues (from small glitches to gaping holes) if the monitor isn't updating frequently enough to match the game's rendered frames (for example, if your monitor is set to refresh at 60Hz and you play a game that displays at 80 frames per second). Games can use V-Sync to alleviate this. This means that if your monitor is running at 60Hz (updating 60 times a second), your game will be limited to 60fps.

If you've used the NVRefFix program (see "nVidia Refresh Rate Fix"), GF2 and GF3 owners can safely leave the option for Direct3D set to "On" and the OpenGL feature as "Default On".

If you've got a GeForce2 and you're having issues with slow-downs in newer games, you might see a frame rate improvement if you turn both of those options to "Off". However, if you have any issues with nasty-looking rendering errors, turn both back to their defaults. ■

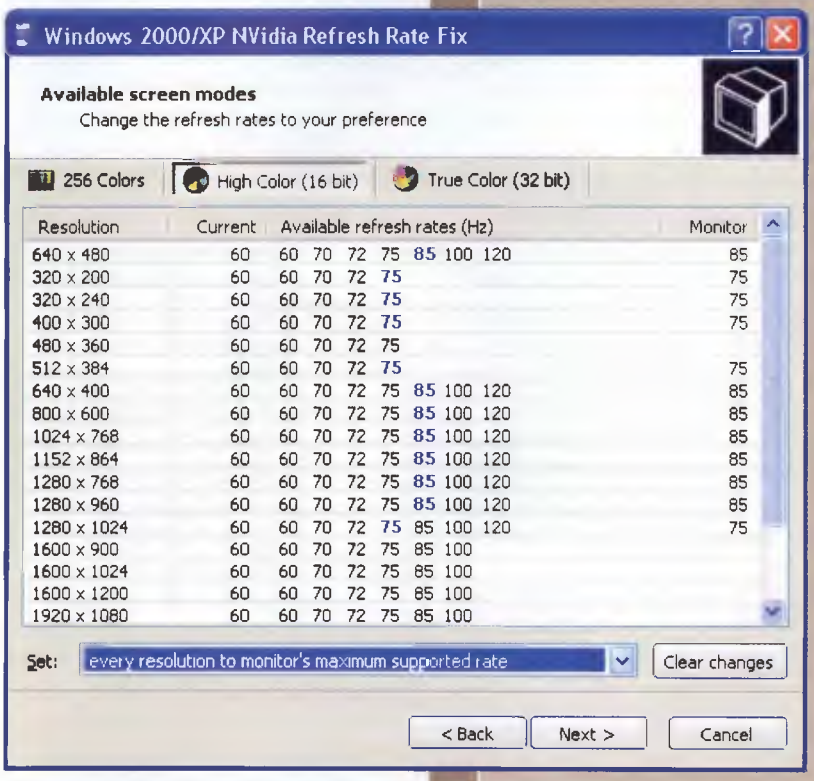
**nVidia Refresh Rate Fix**

One of the most frustrating things about gaming in Windows 2000 and Windows XP is the way they handle monitor refresh rates. Your refresh rate controls how quickly your screen updates the picture and is measured in Hz. The default setting is 60Hz, but generally, your monitor needs to be set above 72Hz for your eyes to be comfortable — anything below this is likely to cause eye-strain and headaches after prolonged periods of use.

It's relatively easy to change the refresh rate for the Windows desktop, but every time you start a game it usually defaults back to 60Hz. A little utility called nVidia Refresh Rate Fix (NVRefFix) solves this problem by changing the default.

Before you install, please note that NVRefFix requires the nVidia reference drivers to work, and will most likely not recognise your card if you use the manufacturer-supplied drivers.

Install the program from disc 1 of this month's CD set and then run it. It should automatically detect both your monitor and your graphics card. Your best option is to set all refresh rates to 85Hz, but for the best picture quality, select your monitor's maximum.




| Resolution | Current | Available refresh rates (Hz) | Monitor |
|---|---|---|---|
| 640 x 480 | 60 | 60 70 72 75 85 100 120 | 85 |
| 320 x 200 | 60 | 60 70 72 75 | 75 |
| 320 x 240 | 60 | 60 70 72 75 | 75 |
| 400 x 300 | 60 | 60 70 72 75 | 75 |
| 480 x 360 | 60 | 60 70 72 75 | |
| 512 x 384 | 60 | 60 70 72 75 | 75 |
| 640 x 400 | 60 | 60 70 72 75 85 100 120 | 85 |
| 800 x 600 | 60 | 60 70 72 75 85 100 120 | 85 |
| 1024 x 768 | 60 | 60 70 72 75 85 100 120 | 85 |
| 1152 x 864 | 60 | 60 70 72 75 85 100 120 | 85 |
| 1280 x 768 | 60 | 60 70 72 75 85 100 120 | 85 |
| 1280 x 960 | 60 | 60 70 72 75 85 100 120 | 85 |
| 1280 x 1024 | 60 | 60 70 72 75 85 100 120 | 75 |
| 1600 x 900 | 60 | 60 70 72 75 85 100 | |
| 1600 x 1024 | 60 | 60 70 72 75 85 100 | |
| 1600 x 1200 | 60 | 60 70 72 75 85 100 | |
| 1920 x 1080 | 60 | 60 70 72 75 85 100 | |

***DANIEL GARDINER** is an avid technology writer and PC hardware enthusiast. When not writing for APC he can usually be found playing Quake 3 and other online games — and losing badly. He can be ribbed, flamed or emailed at dmgardiner@apcmag.com.*

# DVD AND XP

DISCOVER THE MANY BENEFITS OF UTILISING DVD UNDER THE XP PLATFORM.

At the beginning of the CD era, I was one of very few people who were actually enthusiastic about CDs.

When they weren't grousing about having to buy another copy of their LPs or cassettes, people were complaining about the cost, the fragility of the format (so don't leave them on your car dashboard!), or the fact that the artwork looked like Picasso on a postage stamp compared to the glory of the LP.

But I didn't notice the problems as much as the advantages: the sound quality, which blew everything else away; the long life; the convenience.

The advent of DVD wasn't too different. My first experience was loaded with scepticism, and the demo reel of *Batman* did keep glitching. But the first few years of the compact disc were also fraught with mastering and quality control problems.

Now CDs are the dominant format, and will be for a long time to come. Similarly the DVD is slowly but surely kicking the VHS tape out of the spotlight — and not just because it's the pinnacle for playback. With the introduction of the write-once DVD-R and the eraseable/rewriteable DVD-RW, it's now possible to use the DVD format for home-recording as well. The VCR may not be dead yet, but the end is in sight.

So how do the PC and Windows XP figure in all this? Primarily, in the way a PC can record and play back digital video with great ease, and the many features Windows XP has for working with DVDs and digital video.

**Correction**

*Last month Serdar said Windows 9x could not be upgraded to Windows 2000. He claims to have been abducted by aliens when he wrote this and would now like to clarify that he meant to say Windows Me could not be upgraded to Windows 2000.*

### WHY WATCH DVDs ON THE PC?

I prefer the resolution of my monitor to that of my TV. Second, PC-based DVD players generally tend to be far less buggy than standalones — and cheaper too. The software DVD players I have on my PC either cost nothing or are about one-fourth to one-third of the cost of a standalone unit.

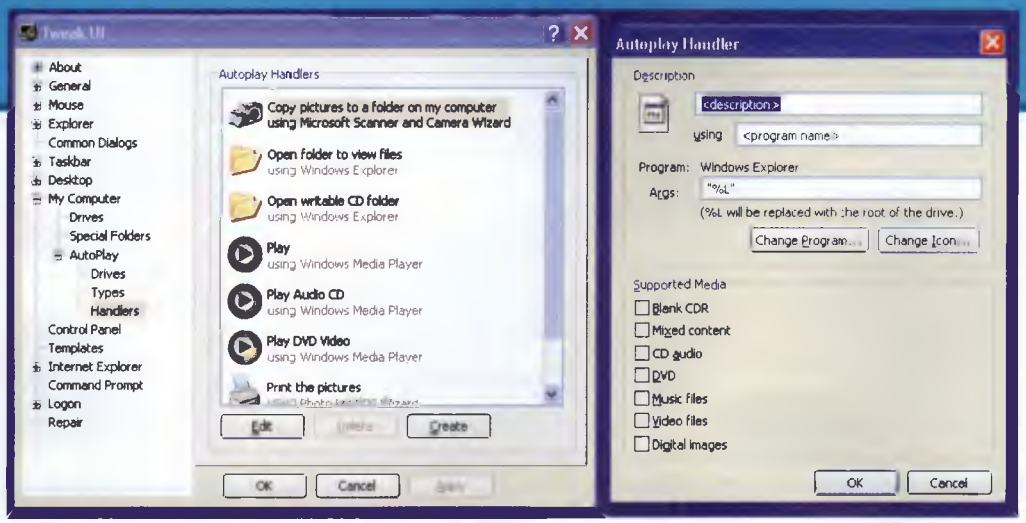
Right now, I use a laptop loaded with Windows XP as my "roadshow" unit — I use it to watch movies while I'm on the go, and when I've got guests I pull down a projection screen and plug the laptop into an LCD projector. Image quality from a PC beats standalone players by at least a factor of two.

XP has its own media player, DirectX, which has been punched up to version 8.1. DirectX includes many low-level routines for handling media streams quickly, with or without hardware acceleration, which makes it easier for people to write applications that decompress video, play it back, project it on to surfaces (not just a 2D surface like your desktop, but 3D objects as well) and edit it. Windows 2000 could be upgraded to DirectX 8, but many of the things it's been designed to do are enhanced by the presence of the XP kernel.

### PLAYBACK OPTIONS

I mentioned last month that Windows Media Player 8.0 has the ability to play DVDs, but only if you have some kind of playback filter installed in Windows XP — either through a third-party program or through an add-on sold specifically for Windows Media Player (WMP). There are some very nice features built into WMP 8.0. Just about any disc you pop in is automatically identified. I say "just about", because a fair amount of my collection is imported titles from other regions, some of which aren't recognised by WMP's online database.

Changing how Windows XP behaves when you insert a DVD is pretty easy. Right-click on your DVD drive, get Properties, then select the AutoPlay tab. A list of applications registered to the disc type in question will appear. One frustrating thing is that there is no option to "Launch program X" by default, but you can do something close to it. The Tweak UI utility for Windows XP has the ability to add AutoPlay handlers manually for all types of media and any type of program. In Tweak UI, navigate to My Computer, AutoPlay, Handlers and click Create, then specify the program and the type of media to be supported. If you don't have Tweak UI for Windows XP, you can get it




*If you want to add default behaviours for AutoPlay when you insert a DVD, Tweak UI for Windows XP can help you create them.*

at **www.microsoft.com/insider/hp/WinXPPowerToys.htm**.

I generally don't use WMP, simply because there are far better applications out there for DVD playback. The commercial program I use most often is Intervideo WinDVD 3.0. WinDVD was the first DVD application for the PC that I ever worked with, back in its 1.2 incarnation, and it's come a long way since then. For one thing, it'll run on as little as a Pentium II 300 processor. It's also been rewritten to work a little more optimally with XP's DirectX 8.1 media layer. Consequently, if you have WinDVD loaded, Windows Media Player magically gains the ability to play DVDs, thanks to the presence of WinDVD's filter driver.

The newest version of WinDVD even supports DTS audio — but only if you have the hardware on the PC to send a DTS stream to a decoder through an S/PDIF output. My feelings about DTS are mixed; I've had the full-blown DTS demo on top-of-the-line hardware and speakers, and I could not really tell much difference between it and a similar Dolby Digital 5.1EX mix. I don't feel I'm missing very much. WinDVD also supports intelligent down-mixing of Dolby Digital multichannel audio to two channels if you don't have multiple speakers — "Virtual Dolby Digital". The trial version of WinDVD is incredibly crippled, though: it only lets you play for five minutes.

The other big DVD software-only program for Windows is Cyberlink PowerDVD 4.0, which has now also been slightly rewritten to make it work well with Windows XP. It'll still work in older versions too. A lot of people swear by PowerDVD, but I have some problems with it. For one, it's a lot hoggier with the CPU — when PowerDVD is running, a lot of other programs slow down enormously, even on my AMD Athlon 1.1GHz machine. There are also other annoying little touches, such as the fact that, while both programs can do screen grabs from DVDs, PowerDVD's grabs look terrible as they are loaded with artefacts and aren't even the correct size. WinDVD's screen grabs are exact bitmaps, and are in the source's aspect ratio as well.

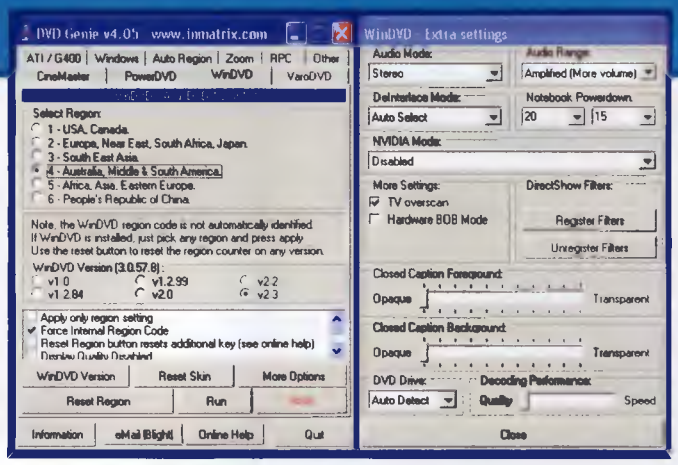
Both programs have copied features from each other. WinDVD, for instance, just added the ability to display more than one subtitle track at a time — something PowerDVD originally came up with. This is useful for discs that have captioned audio commentary in another language, so you can follow both the original movie and the commentary. Both programs are skinnable and both can play NTSC and PAL discs interchangeably.

Now, what if you don't have the cash to shell out for WinDVD, PowerDVD or any other commercial DVD player (about $60)? The DVD add-on for Windows Media Player is much cheaper (about $30), but if you don't like WMP or you don't want to shell out that much, there are a few other options. The first is a little program entitled FreeDVD 2.0. It isn't very elaborate, but it covers the basics, and it works without a hardware decoder.

It does need DirectX 8.0 or better to work, however, and the Web site for the program's authors (**www.mapleware.com**), appears to have vanished. The program can still be found through the Tucows network (**www.tucows.com**). Apparently DX8 provides some low-level services that are used by the program to decrypt the DVD data stream — things which one would normally need to pay royalties for.

There is another freeware DVD player, but it's not just for Windows — it was written from the ground up as a cross-platform player. Entitled VideoLAN, it can play local files or network streams and does a reasonably good job, but its origins on Linux and Unix-based platforms can make it a little thorny for a novice to figure out. However, I can't vouch for the legality of this program.

*WinDVD is probably the best-known software DVD player, and is certainly one of the most feature-laden and processor-friendly. Onscreen above is* Final Fantasy.




*DVD Genie lets you tweak most major DVD player applications, changing a plethora of under-the-hood options you normally can't edit — including region codes.*

*DVD Profiler is one of my favourite pieces of shareware to go with a DVD drive. You can index and catalogue your collection, publish it, track items loaned out, and even root out bootlegs.*

The project's headquarters is in France and it does not seem to be running into any legal trouble there, but in some areas it is not legal to use your own code to decipher DVD streams without paying a royalty. At least a couple of dollars per unit sold for programs like WinDVD go towards royalties for the decoding. Given that VideoLAN is free, I suspect the authors are not doing this.

## DVD EXTRAS

Now for something a little less controversial. These are supplemental programs I use with my DVD player applications — things which enhance their power or make them more fun to use. The first is an application called DVD Genie, now in its 4.05 revision. DVD Genie works with just about any of the major software DVD players, allowing you to set all the options that are not directly documented in the program. This includes switching regions, although if you don't have a region-free DVD drive, you'll need to find out how to flash your drive's firmware to get the most out of it.

A digression about region codes: in Windows XP they appear to be handled in a three-tier fashion. First, the DVD player application can block playback of discs based on the region code in the program. Windows also keeps track of the last region code setting for a given drive, and finally, there's the drive itself. The latter can be set semi-directly by editing the Properties of the drive in question — right-click on the drive, get Properties, select the Hardware tab, select the DVD drive, click the Properties button and then the DVD Region tab. You can reset the region as you like, but keep in mind that Windows keeps a running tab of how many region changes you've made. If your drive is of a model that tracks region code changes in firmware, the changes are permanent until you flash the firmware. DVD Genie includes an RPC Check tab that scans all the drives in your system and lets you know if they are region-locked or not.

DVD Genie also lets you enable or disable specific video or audio options that are not as thoroughly documented, such as the low-frequency effects channel in Dolby Digital streams. If you don't have particularly good speakers, turning off this channel can make things sound a lot less muddy.

My other favourite DVD utility is DVD Profiler. Remember those programs that would catalogue your video collection? DVD Profiler develops the idea beautifully. When you put a DVD in your computer and launch the program, it automatically identifies the movie by comparing the disc's information against a database. If the movie isn't in the database yet, you can add it manually. Discs from all regions are represented — over 40,000 last time I checked. You can make wish lists, annotate your own entries, and publish your collection to a Web site.

Another great thing about DVD Profiler is that it helps determine whether or not a disc is genuine. One of the unique identifiers used for any disc or set of discs is the universal product code. A lot of bootleggers will steal the product code from a legitimate product to give the illusion of legitimacy. If you punch in a UPC on a suspect product and you get a different product in the database, you know what you have is bogus.

## XP DVD HARDWARE

DVD as a read/write/erase storage medium is also finally taking off. The first widely available DVD-RW drive to work with XP is on the market: the Hewlett-Packard DVD-Writer DVD100i (about $999). This is one versatile puppy — you can read or write CDs and DVDs, either as conventional write-once discs or in "packet mode" (where discs can be added to incrementally, like a hard drive). XP drivers are online at HP's Web site (**www.hp.com**).

## WHERE TO FROM HERE?

DVD on the PC is here to stay, but I doubt the PC will ever eclipse the rest of the home entertainment system. There's too big an industry built around it, and too many people simply like their PC and TV to be separate.

I still haven't sold off my standalone DVD player, but I like the fact that XP lets me throw in the *Final Fantasy* movie so I can watch it without having to move to the couch. ■

***SERDAR YEGULALP*** *is a specialist in the Windows platform and was the senior technology editor of* Windows Magazine *until 2001. He publishes the weekly* Windows 2000 Power Users *newsletter at* ***www.win2kpowerusers.com****. He can be contacted at serdar@thegline.com.*

WITH DANIEL POTTS

# RETHINK VIDEO EDITING

DIGITAL CAMCORDERS ARE NOW WIDELY AVAILABLE AND FAIRLY INEXPENSIVE, MEANING DV EDITING IS BECOMING MORE ACCESSIBLE TO NON-PROFESSIONAL USERS.

Until recently, only users of Adobe Premiere (and other video editing packages priced in excess of $1,000) were able to make the most of DV's features. Sonic Foundry's Vegas Video 3, however, not only delivers all the benefits of the DV format, it takes the tedium and repetition out of non-linear editing by rethinking the whole process. This month, *APC* takes you through the various aspects of video editing, and explains how Vegas 3 revolutionises the way you work nearly every step of the way.

## VEGAS VIDEO IN A NUTSHELL

**STRENGTHS**

- About half the price of Premiere and MediaStudio
- Automatic scene and tape detection during capture
- Real-time previewing of all transitions and effects
- Automatic transitions in the timeline
- Transitions on any channel
- Easy to use effects and titles with keyframing
- Output to any format
- Burn straight to CD, VCD, SVCD or DVD
- Batch recapture deleted clips or tapes
- Reliable and stable

**WEAKNESSES**

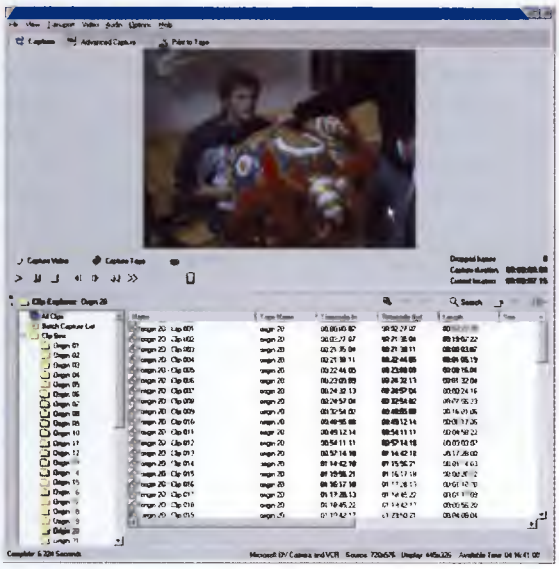
- MPEG codec is a third-party extra
- Doesn't support Premiere plug-in standard
- No batch project render
- No project merging or import
- No low-quality capture for offline editing

### STAGE 1: CAPTURE THE FOOTAGE

Probably the least interesting part of video editing is the first step — that of capturing or "digitising" your footage to your PC. Sonic Foundry clearly understands this and has streamlined the process in every way.

First, when capturing with Vegas, you are presented with a Windows Explorer-style interface that allows you to browse your tapes, bins and clips. As you do so, it indicates whether the clips are online (on disk) or offline, when the footage was shot, when it was captured, the duration of each clip and where they are located on disk. You can flag offline clips for recapture and manage batch captures, all from the same window.

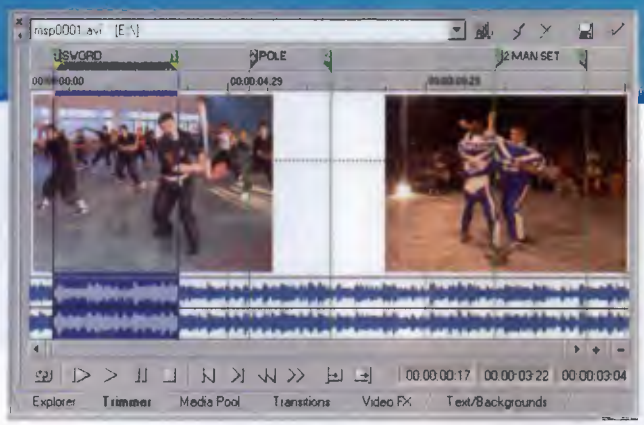
Vegas will also detect when the videotapes are changed in a DV device and prompt you to confirm the name of the tape. In stark contrast, both Adobe Premiere 6 and Ulead Media Studio Pro 6.5 leave you to manage your tapes, bins and clips manually, making the process slower and more prone to error.



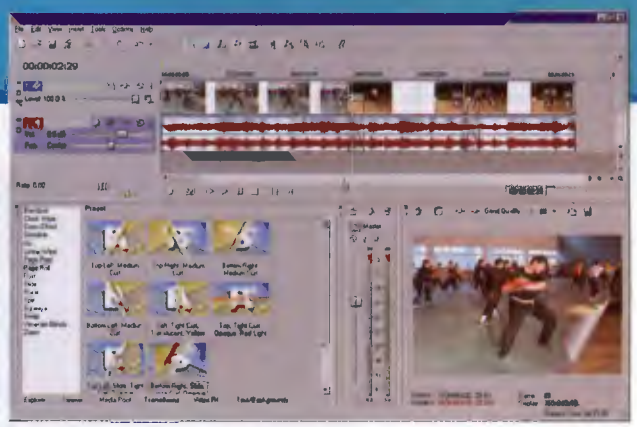
*The Vegas Video capture window lets you manage videoclips in the same way as you manage files in Windows. Tapes are like disk drives that have files and folders in the form of clips and bins. You can search for and recapture lost files here as well.*

### STAGE 2: CREATE CLIPS AND SUBCLIPS

If you are using an analog capture device you will need to go through your video files and create clips. This involves finding "in" and "out" points for the individual shots you intend to use in your edited video. This process is a good way of getting to know your footage, but if you have hours of material to go through, it can be tedious. Fortunately, for those with DV camcorders, Vegas performs automatic "scene detection". This will detect your clips for you and save them as separate files on your hard drive. For some people, this feature alone could be the deciding factor




*The Vegas trimmer window lets you create multiple regions in a videoclip that you can use in the timeline. All edits are non-destructive and you can zoom in and out with the up and down arrow keys for frame-accurate edits.*



*One of Vegas' mind-blowing features is its ability to preview everything in real time, including complex transitions such as page turns.*

for using Vegas. In comparison, the Media Studio Pro 6.5 update includes scene detection, but it is not a default option, and is not complemented by any automatic clip and tape management. Premiere is yet to gain this essential feature in any form.

Once you have your clips ready to go, the next step is to create subclips. These are the trimmed sections of video that you intend to use in your final video. Working with subclips in Vegas is different from the process used in other applications. For instance, in Premiere you set "in" and "out" points in the preview window and then create a subclip in the "bin" or "media pool" window. In Vegas, however, you don't need to create subclips. Instead, you can create regions inside your clips, which can then be used in much the same way. This saves space in your media pool and allows you to work with your subclips in the context of the surrounding footage.

### STAGE 3: ASSEMBLE IN THE TIMELINE

All right, this is where all the action takes place and where Vegas 3 really excels. To start with, Vegas completely redefines the interface for video editing. Effectively, it uses the same concepts as those used in multitrack audio editing and applies them to both audio and video information. This is no big surprise, as the first version of Vegas was in fact a multitrack audio editor. To help explain what this means, let's compare the basic task of crossfading two clips in the timeline in both Vegas 3 and Premiere.

In Vegas, you select the first clip or clip region you wish to use and drag it into the timeline. Then, you select the next clip or region and drag it into the timeline, overlapping the two clips where you want the crossfade to occur. Vegas displays a crossfade envelope on both the video and audio channels to indicate where the transition will occur. Essentially, the whole process is complete in two mouse-clicks.

To do the same thing in Premiere, you must drag the two clips onto the timeline, although they must go into different channels (Video 1 and Video 2). Then you need to drag a dissolve transition from the transition window into the timeline and check its direction. Next, you need to draw volume envelopes into both audio channels to create an audio dissolve between the two. This is a long-winded process for a very simple operation. If you are editing a 30-minute video with 500 transitions, you will appreciate the way Vegas automates the process.

### STAGE 4: ADD TRANSITIONS

Once you have all your clips in the timeline, you can think about changing some of those crossfades into other transition effects. To do this, you simply drag a preset from the transition window into the overlapping section of two clips and you're done. If you want to check out how the new transition looks, just hit the spacebar and preview it right there and then without any pre-rendering of preview files.

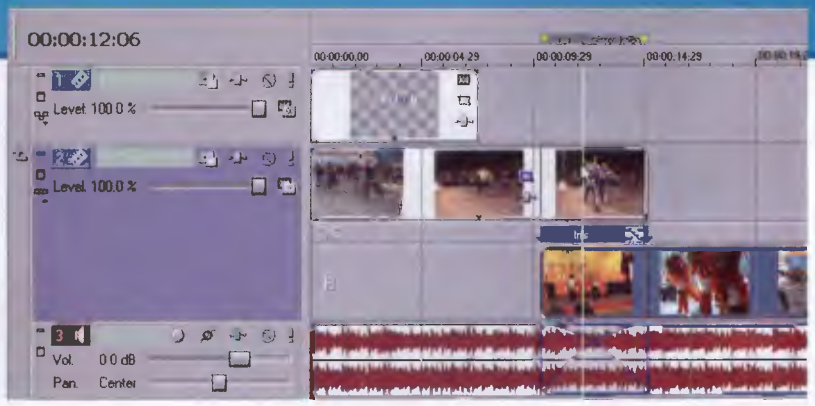
If you have ever worked in any other video editing software you will appreciate the significance of this feature. There's no big "X" (as there is in Premiere) for an unrendered effect. Even MediaStudio Pro 6.5 is left in the dust compared to Vegas' real-time previews. This goes for special effects, titles, masking and motion effects as well. You get instant previews, and the better your processor, the higher their quality. If you don't like the transition, just drag in another one and have a look. This is a fantastic feature and it jsut cannot be over-emphasised.

### STAGE 5: ADD EFFECTS

Not surprisingly, the way Vegas handles effects also differs from the norm. First, it lets you apply effects at the clip level, the "subclip" level (in the timeline), or the channel level. Second, it introduces layer blending in a way that will be familiar to users of Director or Photoshop. Layer blending allows you to apply an alpha channel or other "ink" effect on a whole channel.

Another powerful effect is Vegas' "Event Pan/Crop" feature. This allows you to zoom

*You can create complex camera zooms, rotations and tracking with a real-time preview in the Vegas Event Pan/Crop clip property window.*




*AB Roll fans are catered for in Vegas, but be prepared to be amazed — you can AB Roll with transitions on any video channel!*

in or out and pan across video footage. The standard real-time preview and keyframing functions are also very easy to use. Whilst this sort of thing is possible in other packages, Vegas' implementation is the easiest, by far.

**STAGE 6: ADD TITLES AND MUSIC**

Adding music is simple. Just import an MP3, CD or WAV file and drag it on to the timeline. You can change the start and end points by dragging the beginning and end of the clip, and set fades by either drawing them in or inserting an "empty event" and using the automatic crossfading.

Titles are just as straightforward to add. For simple titles you can insert "text media" events. These can be animated with keyframes in much the same way as the Pan/Crop feature, or simply faded in and out. For more elaborate title sequences there is the "generated media" library, which includes rolling credits, test patterns and colour bars.

**STAGE 7: FINE-TUNE**

Once you have a rough edit of your video, it's time to tweak the edits. If a clip starts too early, you can Alt-drag it to change the start point without affecting the duration of the clip. If the clip is too long, you can Control-Alt-drag the crossfade region to move the "out" point along with the next clip's "in" point. Basically, there are shortcut keys for almost any kind of alteration, and most of these can be done without changing the tool you are using. Ripple mode, automatic crossfades, snapping, grouping, zooming — all can be turned on and off quickly and easily with sensibly chosen keyboard commands. You can group clips to simplify complex edits. You can add voice overs or other audio recordings in real time just by putting an audio channel into record mode. You can mute and solo any track, effect or combination thereof.

Also, if you are a die-hard user of Premiere or another AB Roll editing package, you can even expand your video channels to show the old-fashioned three-channel interface with Video A, Video B and transition blocks!

**STAGE 8: RENDER AND OUTPUT**

You could be forgiven for thinking that not much could be done about the final stage of your production — that a render is just a render. However, Vegas manages to make even this process more versatile.

You can perform a standard render to a variety of formats, particularly AVI and MPEG. Although the built-in MPEG codec will cost you extra, you could always use a different encoder if you so desired. You can also perform the usual "print to tape", with the options to specify a timecode location and include black, tone and/or colour bars. Additionally, you can go straight to VCD, SVCD or DVD using the built-in third-party MPEG codec. This effectively lets you go directly from your timeline to a master CD, bypassing the usual procedure, which involves rendering, converting and then burning a CD — all of which could require the use (and expense) of three software packages.

***DANIEL POTTS** is a Web programmer and developer specialising in ASP, PHP, ColdFusion, JavaScript, Flash, Director and VBScript. He can be contacted at daniel@spinwarp.com*

**FINAL WORDS**

The true value of Vegas Video 3 lies not in what you can achieve with it in a literal sense, but in the way in which you accomplish the end result. You probably couldn't pick the difference between videos created in Vegas and Premier, and this is the beauty of it, because without a doubt the one made with Vegas will be done in less time and with fewer headaches.

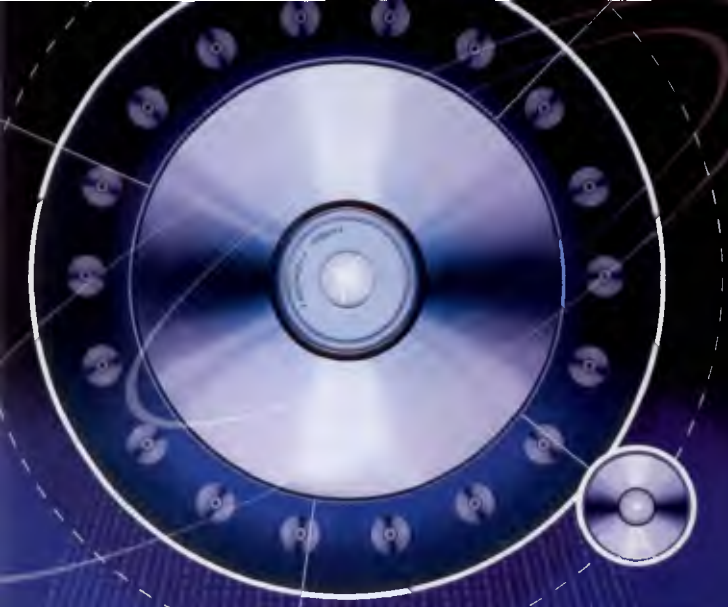
Short of batch project rendering, project merging, and low-quality "offline" editing, this is the perfect solution for home, amateur and even some professional video projects. ■

**Video capture alternatives**

There are two hardware alternatives for video capture: analog and digital. If you have a DV-compatible camcorder (which includes the Digital 8 and miniDV formats), you are in luck. For under $150 you can pick up a FireWire card that will digitally capture directly from the camera to your hard drive. Digital capture ensures you get a perfect copy of your video on disk. In fact, your final edit will be identical in quality to your original footage.

If you have an older camcorder, such as Hi8, Video8, VHS-C or SVHS-C format, you will need an analog capture device. The Pinnacle DC10 or Matrox Marvel will do the job, but it will set you back at least $400. The other downside of analog capture is the fact that all your footage will be compressed, causing further loss of image quality. Of course, you can capture from a digital camera via an analog device, but this is only an option if for some reason you are prevented from using a FireWire card. Also bear in mind that most digital camcorders will allow you to digitise through them from a VCR or other analog video player, so it is even possible to capture analog footage with a FireWire card.

Aside from the superior quality and lower cost, digital capture has the additional benefit of providing automatic scene detection when capturing, so you don't have to dissect your footage manually — that's assuming your capture software supports it. Remember, though, that whilst DV provides uncompressed quality video, it needs about 20GB of disk space per hour of footage. Analog capture using MJPEG compression, on the other hand, only needs around 12GB per hour.



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Microsoft Office xp

See Web Direct Link & Page 64 For More Details!

Collect 500 Bonus Fly Buys points when you purchase C9884, C9885, C9882 or C9883 between 20/02/02 - 30/03/02

Microsoft Plus! for Windows xp

With Microsoft® Plus! for Windows® XP, you can personalise your computer experience like never before. Built exclusively to take advantage of the power of Windows XP, Microsoft Plus! delivers exciting new features for digital music, gaming, photos, and more.

(D0793) **$82**

start MICROSOFT PLUS FOR WINDOWS XP 4:20 AM

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Fax: 1300 13 6666 Email: sales@ht.com.au

See Page 2 for Locations

# TOSHIBA

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Web Direct www.ht.com.au/cat/toshiba

## Satellite Pro Power

NEW!

TOSHIBA PDA

See Page 6

### Satellite Pro | Exceptional performance with wireless capability!

The Satellite Pro® series give you the best of both worlds — power and affordability. Built with just the right mix of features to let you power through day-to-day computing tasks with ease, colourful displays and powerful processors provide plenty of CPU horsepower to even the most demanding applications, while the integrated multimedia devices never leave functionality behind.

| Satellite Pro | TE-2000-1GHz | TE-2000-1.133GHz | TE-2000-1.200GHz | Satellite Pro 6000 |
|---|---|---|---|---|
| PROCESSOR | PIII 1GHz | PIII 1.133GHz | PIII 1.200GHz | PIII 1.200GHz |
| RAM STD | 128Mb | 256Mb | 256Mb | 256Mb |
| HARD DRIVE | 20 GB | 20GB | 30 GB | 40 GB |
| SCREEN | 14.1" TFT | 14.1" TFT | 14.1" TFT | 15" TFT |
| CD-ROM/DVD | DVD | DVD | DVD/CDRW | DVD/CDRW |
| VIDEO RAM | 16 MB | 16MB | 16 MB | 16 MB |
| 56K v9.0 & 10/100 LAN | 56k/Ethernet | 56k/Ethernet | 56k/Ethernet | 56k/Ethernet |
| WIRELESS LAN | Antenna Only | Antenna Only | Antenna Only | Wireless |
| WARRANTY | 1 Year | 1 year | 1 Year | 1 Year |
| WINDOWS '98 | (D9222) | (D9224) | (D9226) | (D9220) |
| | $3,099 | $3,767 | $4,399 | $5,075 |
| Rent* w/k | $30.39 | $36.94 | $41.11 | $46.26 |
| WINDOWS 2000/XP PRO | (D9223) | (D9225) | (D9228) | (D9221) |
| | $3,299 | $3,960 | $4,599 | $5,275 |
| Rent* w/k | $32.35 | $37.01 | $42.98 | $$48.08 |

NO FURTHER DISCOUNTS AVAILABLE ON...

ALL TOSHIBA NOTEBOOKS AND ACCESSORIES SOLD FROM HARRIS TECHNOLOGY™

### The ultimate statement in mobile computing

## Satellite 1800 | Satellite 3000

The award-winning series of Satellite notebook PCs offer the ideal balance in affordability and performance. Every Satellite is built with the right mix of features to help you power through your day-to-day computing requirements. Whether for business or pleasure, the Satellite range is the perfect choice to take you into the new world.

| Satellite | 1800 | 3000 |
|---|---|---|
| PROCESSOR | Cel 1GHz | PIII 1,133GHz |
| RAM STD | 128MB | 128MB |
| HARD DRIVE | 20GB | 20GB |
| SCREEN | 14.1"XGA TFT | 14.1"XGA TFT |
| POINTING DEVICE | Touch Pad | Touch Pad |
| CD-ROM/DVD | DVD | DVD |
| PORT REPLICATION | No | No |
| FIREWIRE | No | Yes |
| VIDEO RAM | 16MB | 16MB |
| 56K v.90 & 10/100 LAN | 56 k | 56K/Eth-Wireless |
| WARRANTY | 1 Year | 1 Year |
| OP SYSTEM | Win XP Pro | Win HOME |
| PART NUMBER | (D9217) | (D9215) |

**New Models please call us for latest pricing**

Satellite 1800

Satellite 3000

Ask About...

- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site



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# TOSHIBA

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Web Direct www.ht.com.au/cat/toshiba

## Tecra & Portege Models

# Tecra 9000

*The most mobility & power without compromise!*

| Tecra 9000 | 9000-933 | 9000-1Ghz | 9000-1133 |
|---|---|---|---|
| PROCESSOR | PIII 933MHz | PIII1GHZ | PIII-1133MHz |
| RAM | 128 MB | 256MB | 256MB |
| HARD DRIVE | 20GB | 20GB | 20GB |
| SCREEN | 14.1" XGA | 14.1" XGA | 14.1" XGA |
| CD-ROM/DVD | DVD | DVD | DVD |
| PORT REPLICATOR | Optional | Optional | Optional |
| VIDEO RAM | 16MB Int | 16MB Int | 16MB Int |
| 56K v.90 | Yes | Yes | Yes |
| 10/100 LAN | Yes | Yes | Yes |
| WIRELESS LAN | Yes | Yes | Yes |
| WEIGHT | 2.4Kg | 2.0 | 2.4Kg |
| WARRANTY | 3 Years | 3 Year | 3 Years |
| WINDOWS 98SE | (C9719) **$4,516** | | (D9229) **$6,949** |
| Rent* /wk | $42.20 | | $60.29 |
| Win 2000/XP RO | | (E1576) **$5,995** | (D9231) **$7,149** |
| Rent* /wk | | $54.65 | $62.03 |

The Tecra series is equiped for consistant mobile performance — providing you with the ultimate combination of traditional Tecra investment benefits, high processor performance and a new sleek look and feel that you will notice. Each Tecra comes with DVD drive standard.

# Portégé 4000

| Portege | 4000-750 |
|---|---|
| PROCESSOR | PIII 750MHz |
| RAM | 128 MB |
| HARD DRIVE | 20GB |
| SCREEN | 12.1" TFT XGA |
| CD-ROM/DVD | DVD |
| PORT REPLICATOR | Optional |
| VIDEO RAM | 16MB Ext |
| 56k v.90 | Yes |
| 10/100 LAN | Yes |
| WIRELESS LAN | Yes |
| WEIGHT | 1.9Kg |
| WARRANTY | 3 Years |
| WINDOWS 98SE | (C9727) **$4,795** |
| Rent* /wk | $44.81 |
| WIN 2000/XP PRO | (D5873) **$4,987** |
| Rent* /wk | $45.45 |

The Portégé is the ultimate statement in mobile computing with its Pentium III power, large high resolution colour display, long battery life and easy functionality all packed into an ultra thin lightweight body (**only 2kg**) finished in sleek magnesium. With head turning style and work burning performance, the Portégé is the perfect tool for the travelling executive ready to succeed in the new world.

**Limited stock**

*Ultrathin, ultralight, ultraperformance*

**NO FURTHER DISCOUNTS AVAILABLE ON...**

ALL TOSHIBA NOTEBOOKS AND ACCESSORIES SOLD FROM HARRIS TECHNOLOGY

**TOSHIBA Accessories**

Toshiba Classic Leather Carry Bag (68408) **$199**

Toshiba AC Adapter Tecra (D1556) **$89**

Toshiba Battery 4000/9000 (D1554) **$137**

Toshiba Port replicator (D0406) **$259**

Toshiba AC Adapter Portégé (D1209) **$112**

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**Order on-line www.ht.com.au**

# TOSHIBA

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## Great Range Of Technology

Ask About...

- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site

NEW

### Toshiba Pocket PC e570

- Operating System Pocket PC 2002
- Processor Intel StrongARM at 206MHz
- Display TFT color Resolution 240x320 Display Size 3.5" Number of Colors 64K
- SDRAM (Onboard) 64MB
- CMOS Flash ROM 32MB
- Expansion 1xContact Flash II Card Slot, 1x SD Card Slot
- Speakers and Microphone Both built-in
- Battery Type Rechargeable advanced lithium ion
- Battery Life Up to 8 hours, depending on usage
- Dimensions 77mm x 125mm x 17.5mm
- Warranty One year (parts, labour, battery)

(D4301) **$1,249** Rent* $13.69/wk

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## Presentation Delivery in Style

The Toshiba TLP-B2 Projector is an inovative and mobile communication solution, ultra portable and ideal for improving your presentation fields. Flexible input through a range of devices from DVD, VCR, television and notebook computers. Resolution: XGA 1,024x768 Brightness: 1,000 ANSI Lumens Weight: 2.6 kg

(A1506) **$6,995** Rent* $60.69/wk

### TLP-680 (without camera)

The Toshiba 680/681 Projectors are flexible enough to deliver your presentations in style! The 681 model comes with a unique swivel and folding camera allowing projection of hard copy material. Both projectors share the following features: Resolution: XGA 1,024x768, Brightness: 1,500 ANSI Lumens, Weight: 3.7 kg for 680 and 4.5 kg for the 681

(D1732) **$8,649** Rent* $75.04/wk

### TLP-681 (with Camera)

(D1733) **$10,599** Rent* $90.49/wk

NO FURTHER DISCOUNTS AVAILABLE ON...

ALL TOSHIBA NOTEBOOKS AND ACCESSORIES SOLD FROM HARRIS TECHNOLOGY.

## PC Card Media Expansion

### SD Media

With up to 128Mb of capacity the small postage stamp sized SD card offers the easiest way to transfer data between devices. Fully compatible with the Toshiba Tecra 9000, Portege 4000, Satellite Pro 6000, Pocket PC e570, other models can accept SD memory via the PC Card adapter.

(picture)

32MB SD Memory Card (E0598) **$107**

128MB SD Memory Card (E0601) **$327**

64MB SD Memory Card (E0600) **$179**

PC Card SD Adaptor (E0603) **$347**

### 2GB PC Card Hard Drive

Easily store and share information in a small and ultra portable device that is simple to use and easy to carry anywhere.

- 4200 rpm
- Max 20Mb/s transfer rate host
- Max 130Mb/s transfer rate disk
- Average 15ms seek time
- 256KB buffer size
- Compatible with any PC equipped with a Type II PCMCIA PC Card slot
- Support for Windows 95/98/XP/2000/NT
- 5mm x 54 mm x 85.6 mm
- Weighs only 55g

(D3427) **$549**

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# COMPAQ

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Web Direct www.ht.com.au/cat/compaq

# Complete Business Networking Solutions

## New Generation Compaq ProLiant Solutions

### ProLiant ML 330, New Generation

**The affordable Server for an Expanding Business!**

- Delivers performance and data security at the best price.
- Ideal use with File/Print/Internet sharing, email & Small databases
- Dual processor capable Intel Pentium III 1133MHz with 133 MHz FSB
- 128MB ECC SDRAM (expandable to 4GB)
- 5 Available PCI expansion slots (includes 4 x 64 bit PCI slots)
- Ultra ATA-100 with Integrated ATA RAID or Ultra3 SCSI (hot plug optional)
- Tower model kit available
- Includes Famous Insight Manager and SmartStart Software suites
- Pre-failure warranty on Hard drives, processor and memory
- 1 year Compaq warranty, parts, labour, on site (ask about our upgrades)

(D1753) **$1,995 RRP** Rent* $21.86/wk

### Small Business Budget Solution

PIII 1133/ 20GB (ATA)/ 128MB/ Travan TR-5 back-up Drive/ Windows 2000 Server

(D9178) **$4,385** Rent* $40.98/wk

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### ProLiant ML350 Second Generation

**The Workgroup server that will grow with your business!**

- Delivers constant uptime and expandability for future growth.
- Dual Processor capable Intel Pentium III 1133MHz with 133 MHz FSB
- 128MB ECC SDRAM (expandable to 4GB)
- 6 Available PCI expansion slots (includes 5 x 64 bit PCI slots)
- Integrated dual-channel Ultra3 SCSI
- 6x 1" Hot-plug Hard drive bays (expandable to 8)
- Redundant Power supply optional
- Tower model kit available
- Includes Famous Insight Manager and SmartStart Software suites
- Pre-failure warranty on Hard-Drive, Processors and Memory
- 3 Year Compaq Warranty, parts, labour, on site

(D1754) **$3,995** Rent* $37.33/wk

### Business Work Group Solution

PIII 1133/ 18GB/128MB/ 12/24 GB DDS-3 DAT Back-up Drive/ Windows 2000 Server

(D9181) **$7,059** Rent* $61.25/wk

HARRIS TECHNOLOGY. for all your computer needs!

### ProLiant ML 370 Second Generation

**For unprecedented performance and availability!**

- Ensures constant uptime with Hot pluggable Hard drives, cooling fans, PCI slots (2), and also optional Hot Plug secondary power supply. The all-new Compaq online spare memory
- Dual Capable Pentium III 1266MHz with 512k cache & 133MHz FSB
- 256MB of 133MHz ECC registered SDRAM memory
- Integrated Dual Channel Ultra 3 SCSI Controller
- 6-1" Hot PLug Hard drive bays, 6 - 64bit PCI slots
- Includes Famous Insight Manager and SmartStart Software suites
- Pre-failure warranty on Hard drives, processor and memory
- 3 Year Compaq Warranty, parts, labour, on site

(D4042) **$5,669** Rent* $51.67/wk

### Corporate Solution

PIII 1266/ 256 MB/ 3 x 18GB, RAID 5, 12/24 GB DDS-3 DAT Back-up Drive, Windows 2000 Server

(D9195) **$10,355** Rent* $88.41/wk

Web Direct

See Web Direct Link (at top of page) for more products and latest info!

### ProLiant TaskSmart W2200 - 10

- Preconfigured Red Hat Linux running Apache Web server
- Remote management
- GUI based administration (No knowledge of Linux or Apache required)
- 1U Form factor ( 4.24cm) Rack ready
- Intel Pentium III 933Mhz processor FC-PGA (Flip Chip-pin Grid Array)
- 128MB ECC SD RAM
- 20Gb UATA/72k Hard Drive
- Will run additional Linux applications
- 3 year Compaq Warranty,parts,labour on site

### Web Server Solution

Preconfigured Linux Web Server

(D1609) **$3,905** Rent* $36.49/wk



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Fly Buys. Would you like FlyBuys with that?

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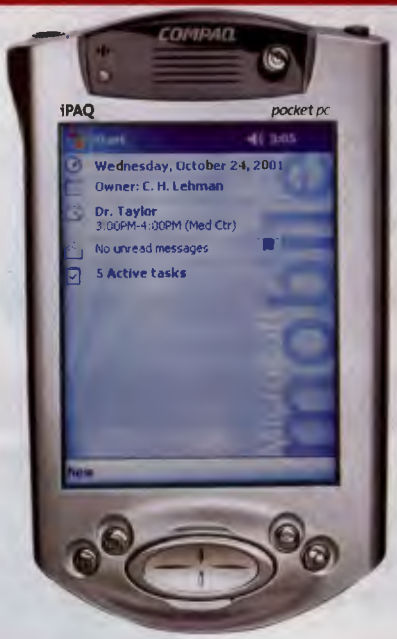
# Handhelds and Projectors

## IPAQ Pocket PC H3870 — NEW




### The Only Pocket PC with In built Bluetooth for wireless communication

- 206MHz Intel StrongARM Processor
- Memory: 64MB RAM, 32MB ROM
- Reflective TFT Screen with 65,536 colours. 240 x 320 resolution.
- Inbuilt Bluetooth for wireless link to Bluetooth mobile phones, printers and PCs.
- SD expansion slot integrated
- 1400 mAh Lithium Polymer rechargeable battery with up to 12 hours standby (depending on usage)
- Powered by Microsoft Pocket PC 2002.
- Includes:Universal (USB/Serial) Docking Cradle, AC Adaptor
- 2001 Planet PDA – Best Pocket PC: Compaq iPAQ 3800 series.

(D1796) **$1,496**
Rent* $16.39/wk

## Compaq MP2810 Projector Promotion — NEW

### The ultimate mobile presentation solution - Microprojector with FREE iPAQ!

(E1460) **$9,995**
Rent* $85.34/wk

### Compaq's Microportable projectors offer!

- Superior portability - under 2 kgs
- Simple to use – plug-and-present; works with virtually any PC
- Quick-change lamp – replacement in minutes
- Multimedia Adapter – best audio quality in a Microportable projector
- Lightest presentation solution – iPAQ projector with iPAQ Pocket PC
- Durable – Magnesium Alloy casing withstands rigorous testing
- Tower Design - naturally reduces image distortion.
- Professional quality 1024 x 768 resolution, colour presentations.
- PowerPoint Integration
- All Microsoft Windows Applications Support
- Infrared Remote Control
- Preview Slide Notes While Presenting
- Display Your Handheld's Screen
- Lowest Memory Usage
- Ultra portable & Ultra light

***For a limited time only:**

Buy a Compaq MP2810 projector and you get free:

- iPAQ Pocket PC H3850
- Compaq Flash Expansion Jacket
- Margi Presenter-to-Go CF VGA Card

Valued at over $2000.

*offer valid until 15 March 2002 or strictly while stocks last

**Ask About...**

- Extend to a total of 3 Years Return to Base
- Extend to a total of 5 Years Return to Base
- Upgrade Return to Base of Warranty Extension to On-Site

**Save on COMPAQ server bundles refer to website link below**
compaq.com.au/solutions/smallmedium

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# COMPAQ

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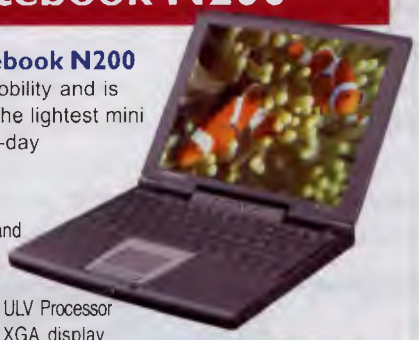
# Notebooks and Wireless LAN

## Evo Notebook N200



**The Evo Notebook N200** offers extreme mobility and is feature rich. It is the lightest mini notebook with all-day battery life.

- Only 1.13kg light and under 1 inch thin
- Mobile Intel Pentium III 700MHz ULV Processor
- 10.4" Colour TFT XGA display
- 192MB SDRAM
- 20GB Hard Disk Drive
- Integrated Modem and 10/100 Ethernet
- Microsoft Windows 2000
- 1 Year Limited International Warranty, including pick-up in Australia* *Includes pick-up from anywhere within Australia, with a 48-hour service workshop turnaround repair time.

**BUNDLE***
- MEU W/ CD-RW
- Portfolio Case

*offer valid until 30 March 2002 or strictly while stocks last

(E1094) **$3,995** Rent* $37.33/wk

## Evo N160 Notebook

**The Evo Notebook N160** is the ideal thin and light notebook for customers seeking great value for money without sacrificing superior performance.

- Mobile Intel Celeron 1066MHz Processor
- 14.1" Colour TFT XGA display
- 128MB SDRAM
- 20GB Hard Disk Drive
- 8X DVD-ROM drive
- Mini PCI 56K Modem& 10/100 Ethernet
- From only 2.5kg
- Microsoft Windows 2000
- 1 Year Limited International Warranty, including pick-up in Australia* *Includes pick-up from anywhere within Australia, with a 48-hour service workshop turnaround repair time.

**BUNDLE***
- 128 MB SDRAM
- Sports Backpack

*offer valid until 30 March 2002 or strictly while stocks last

(E1105) **$2,995** Rent* $29.37/wk

**NOTEBOOK BUNDLE* SPECIALS**
*offer valid until 30th March 2002 or strictly while stocks last

## Evo N115 Notebook Series

**NEW**

**The Evo N115** all-in-one notebook is designed for growing businesses and offers exceptional value-for-money, without sacrificing performance.

- AMD Duron 1000MHz processor*
- 14.1" Colour TFT XGA display
- 128MB SDRAM
- 20GB hard drive & 1.44MB 3.5" FDD
- 24X CD-ROM
- Mini PCI 56K modem & 10/100 ethernet
- Windows XP Professional

(E1123) **$2,495** Rent* $24.47/wk

- AMD Athlon 1200MHz processor*
- 14.1" CTFT 1024 x 768 Display
- 256MB SDRAM exp. to 512MB
- 20GB hard drive & 1.44MB 3.5" FDD
- 8X DVD-ROM Drive
- Mini PCI 56K modem & 10/100 ethernet
- Windows XP Professional

(E1122) **$2,995** Rent* $29.37/wk

**BUNDLE***
- Slimline Carry Case

*offer valid until 30 March 2002 or strictly while stocks last

- 1 Year Limited International Warranty, including pick-up in Australia* *Includes pick-up from anywhere within Australia, with a 48-hour service workshop turnaround repair time.

Not all items are in stock at all stores but can be ordered for Pick-up or Delivery#

HARRIS TECHNOLOGY

#Delivery charges extra.

# Wireless Networking solution for Growing Businesses

## WL410 Access Point

**WIRELESS:**

- Eliminates cost to "wire" the office
- Enables the sharing of network peripherals, file sharing and internet access
- Portable - take the network with you when moving to new offices
- Scalable - add users to your network as you need to

*** Special Offer:**

You can choose exactly what you need to set up your wireless network. Buy WL410 Wireless LAN Access Point with your choice of any 5 CompaqWireless LAN interfaces and receive 25% off the WL410 Wireless LAN Access Point.

*offer valid until 15 March 2002 or strictly while stocks last

(C3298) **$995 RRP**

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Delivery Australia-Wide

hp invent

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# hp omnibook XE3L & 500 Series

Ask About...

- Extend to a total of 3 Years Return to Base
- Extend to a total of 5 Years Return to Base
- Upgrade Return to Base of Warranty Extension to On-Site

Fast Delivery Australia-Wide

HARRIS TECHNOLOGY™ Technology Centre at Kmart Broadway-Sydney

Technology Centre Shoppers! Not all products are in-store, but consulting & advice available on all items.

Whether you run your own business or work for a large enterprise, you need a notebook PC that helps you stay on top of it all. That 's why hp created the **Omnibook XE3L** — a convenient, reliable notebook that comes with everything you need to do business and have a little fun, too. Top performance, Internet working, multimedia,and instant access to your favourite applications.
**Omnibook 500** — fast networking computer all in one reliable package with versatility,1.6kg carry weight and a expansion base with dual multibay capability.

## hp omnibook XE3L Celeron

hp OmniBook XE3L Celeron 1.06Ghz, 14.1" TFT 128MB, 10GB, 24x, 56k/LAN

- Intel® Celeron 1.06Ghz
- 128MB RAM
- 14.1-inch XGA TFT
- 10 GB
- 24x CDRom
- Built-in 56K modem
- Built-in LAN
- Win XP Home / XP Pro
- 1-year warranty.

Superb performance and value

• with Windows XP

| F3455H | F3455J |
|---|---|
| Windows XP Home | Windows XP Professional |
| (E0982) | (E0983) |
| $2,849 | $2,999 |
| Rent* $27.94/wk | Rent* $29.41/wk |

with CD-ROM | Celeron 1.06Ghz | 14.1 display

## hp omnibook 500 PIII

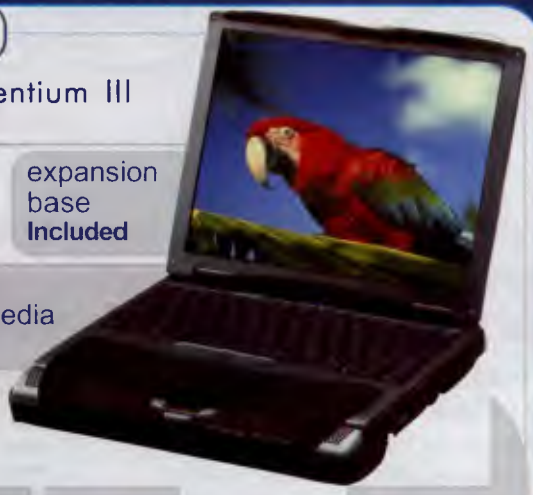
hp Omnibook 500 notebook with Intel Pentium III 700MHz processor

- 128MB RAM
- 20GB HDD
- 12.1" XGA TFT display
- 16-bit Soundblaster Pro compatible sound
- Built-in56Kbps modem, 10/100 lan and 802.11b wireless networking
- Expansion Base has 2 module bays (1.44MB diskette drive module included)
- Warranty : 1 year return to HP

Ultra Light notebook PC

expansion base Included

omnibook depicted with docked multimedia expansion base



| F3481W | F3481K |
|---|---|
| Windows 98 SE | Windows 2000 |
| (D0211) | (D0210) |
| $5,390 | $5,590 |
| Rent* $49.13/wk | Rent* $50.95/wk |

very light 1.6kg | PentiumIII 700Mhz | Expansion base Included

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# hp networks & servers

*NEXT BUSINESS DAY ADVANCE REPLACEMENT - LIFETIME WARRANTY*
****PLEASE NOTE THAT PRICES ARE SUBJECT TO CHANGE ON ALL PRODUCTS****

## hp procurve switch 2512 & 2524

**9.6GBPS BACKPLANE & AUTO-MDIX** • Lowest Price 10/100 Managed Switch • Provides a rich, layer 2 feature set • Includes 2 transceiver slots for upgrade to a gigabit • Auto MDIX on all 10/100 and 100/1000 ports • Lifetime warranty for as long as you own the product • Wire-speed performance on all ports • FREE HP TopTools Management Software included.

**procurve switch 2512**
(12 port managed switch)
(A9703) **$1,859**

**procurve switch 2524**
(24 port managed switch)
(B0062) **$2,339**

## hp procurve switch 2312 & 2324

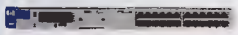
Ideal for low-cost, unmanaged 10/100 connectivity • Lowest Price 10/100 Switch • Includes 2 Built-in Gigabit transceiver slots • Brings 10/100/1000 solutions to the market • Media-flexible ports for uplinks and server connections • HP quality, functionality and performance • Plug and play solution

**procurve switch 2312**
(12 port managed switch)
(B0063) **$1,079**

**procurve switch 2324**
(24 port managed switch)
(B0064) **$1,499**

**HP ProCurve Switch 408**
Unmanaged 8 port 10/100 switch in a compact sized package. This switch offers half/full duplex, 10/100 autosensing on every port. Warranty: Lifetime, Exchange Next Day
(C9017)
**$388**

## hp procurve switch modules

**hp procurve switch 2124 Transceiver**

(D1512) **$1,115**

**hp procurve switch 2424M Gig Stack Kit**
(78306) **$419**

**hp procurve Gigabit-SX Transceiver**
(82140) **$765**

**hp procurve Gigabit-LX Transceiver**
(82141) **$1,995**

**hp proCurve 100/1000-T Transceiver**
(A9127) **$875**

**hp proCurve 100-FX SC Transceiver**
(A9128) **$715**

## hp procurve switch 4108GL

**The hp procurve switch 4108GL bundle is a high performance, Layer 2 modular switch,** for high port-density needs at the edge of the network. The chassis bundle provides 72 half/full duplex, 10/100 autosensing ports, with hp auto MDIX, transceiver module for uplinks and 4 free module slots. In addition, the switch offers built-in management (including SNMP and RMON) and fast path technology for wire-speed switching.

(C5871)
**$17,495**
Rent* $141.30/wk

## hp netserver tc2100 Series

*the server with the best price/performance value for small businesses*

NEW

**entry-level server at the price of a desktop PC**

gives you server-grade power with a 1.26GHz Intel® Pentium® III processor, a 133MHz front side bus, and up to 1.5 GB of error-checking and -correcting (ECC) SDRAM memory • broader network operating system support • 3-year on-site warranty

P4653A **tc2100 with Pentium III 1.26GHz, 40 GB IDE hard disk drive** (E1257) **$Call** Rent* $Call/wk

P4652A **tc2100 with Pentium III 1.26GHz, SCSI 18 GB hard disk drive** (E1258) **$Call** Rent* $Call/wk

**Features:**

- 128 MB registered ECC SDRAM
- 48X max-speed IDE CD-ROM drive
- flexible disk drive
- keyboard, and mouse.

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INFORMATION TECHNOLOGY GROUP

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# Ipex- Largest Australian PC maker!

## IPEX MONITORS

**IPEX CRT MONITORS**

**15"** (C5931) **$315**

**17"** (D9301) **$399**

Designed for Microsoft® Windows® XP

***With more than 18 successful years in the IT industry, Ipex is ranked in the top 20 IT companies and top 5 Desktop/Server manufacturers in Australia. Ipex offer systems to best suit your computing needs at a cost effective price.***

The Ipex M3 Series Slim Office Desktop is ideal for business and corporate environments. Housed in a small form factor Slim Office Case and featuring Integrated LAN, Graphics and Audio onboard, this is the cost effective business PC.

## IPEX M3 SERIES DESKTOP

| | | |
|---|---|---|
| Form Factor | Slim Office | Micro Office* |
| Processor | Intel® Celeron™ 1.1 GHz | Intel® Pentium4® 1.6 GHz |
| HDD | 20 GB | 20 GB |
| RAM | 128 MB | 128 MB DDR |
| LAN | Onboard | Onboard |
| Video | Onboard | 32Mb Integrated |
| Sound | Onboard | Onboard |
| CD-ROM | Yes | Yes |
| Modem | No | No |
| Monitor | 15" CRT | 15" CRT |
| Warranty | 3 Years RTB | 3 Years RTB |
| Win XP- Pro | Yes | Yes |
| Parts | (D9297) **$1,599** | (E1558) **$1,899** |
| Rent* | $17.52/wk | $20.81/wk |

*Image not shown

Designed for Microsoft® Windows® XP

***Ipex have a full range of Windows® XP ready PCs. Take advantage of Microsoft's new Operating system with a new PC from Ipex. Choose from Windows® XP Home or Professional Editions for home or business.***

Everything you need in a PC for your home or small office. With Windows XP Home installed, take advantage of amazing graphic and sound capabilities. Enjoy the web with a 56K Modem as standard.

## IPEX SOHO TOWER

| | | | |
|---|---|---|---|
| Form Factor | T400 Tower | T400 Tower | T400 Tower |
| Processor | Intel® Pentium® 4 1.6 GHz | Intel® Pentium® 4 1.8 GHz | Intel® Pentium® 4 2.0 GHz |
| HDD | 20 GB | 20 GB | 40 GB |
| RAM | 128 MB SDRAM | 128 MB DDR | 256 MB RDRAM |
| LAN | Onboard | Onboard | Onboard |
| Video | Onboard | 32Mb | 32Mb |
| Sound | Onboard | SB Live | SB Live |
| CD-ROM | Yes | CDRW | DVD-ROM |
| Modem | 56K Internal | None | 56K Internal |
| Monitor | 17" CRT | 17" CRT | 17" CRT |
| Warranty | 3 Years RTB | 3 Years RTB | 3 Years RTB |
| OS | Win® XP Home | Win® XP Home | Win® XP Home |
| Part # | (D9294) **$1,849** | (E1276) **$2,190** | (D4157) **$2,799** |
| Rent* | $20.26/wk | $24.00/wk | $27.45/wk |

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## IPEX LCD FLAT SCREEN MONITORS

### IPEX 15" LCD

| | |
|---|---|
| Monitor | 15" LCD |
| Part # | (C9400) **$965** |
| Rent* | $10.57 /wk |

### IPEX 17" LCD

| | |
|---|---|
| Monitor | 17" LCD |
| Part # | (C9401) **$1,749** |
| Rent* | $19.17 /wk |

Images for illustration purpose only

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DIGITAL TAPE SOLUTIONS

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# Next Generation Backup Solutions

## DLT TAPE DRIVES

| | | |
|---|---|---|
| DLT1 economy tape Internal Drives | (88037) | $2,790 |
| DLT1 economy tape External Drives | (88038) | $3,340 |
| DLT8000/S Internal 40/80GB | (82501) | $5,815 |
| DLT8000/ST External 40/80GB | (82502) | $6,419 |
| SDLT220/S Internal 110/220GB | (B9821) | $10,529 |
| SDLT220/ST External 110/220GB | (B9823) | $11,245 |

## LTO ULTRIUM

### LTO ULTRIUM TAPE DRIVE

- 100GB Native, and 200GB compressed capcity per tape.
- 16 Mb/Sec sustained, that is 57 GB/Hour!
- Ultra wide LVD SCSI interface and includes Data tape and cleaning tape.
- Compatible with most common backup software.
- Includes 3 year factory warranty, on-site optional

LTO Ultrium Tape Drive (Internal Drive) (D1509) **$10,350**

LTO Ultrium Tape Drive (External Drive) (D1508) **$10,995**

## TapeWare

### BACKUP SOFTWARE

Backup for NT, Netware or Linux

TapeWare - Loaded with features yet simple to use. TapeWare is simple to install and easy to administer whether you have a single PC or a large enterprise network.

- Quick Start Wizards set up common applications quickly
- Advanced and predefined scheduling features
- Built in free 9 slot autoloader support
- Desktop, Single Server, Enterprise & Data Center Versions
- Options for MS-Exchange, Cluster, SQL, etc.

Tapeware Lite for Windows or Netware

Single Server Licence (E1612) **$680**

## Exabyte VXA

### EXABYTE VXA-1 TAPE DRIVE

- 12/24, 20/40, 33/66 Gbyte capacity tapes
- 3-6MB sec sustained, that's 21.6GB/Hr
- IDE, Firewire and LVD models available.
- Retrospect or Tapeware Bundles available.

| | | |
|---|---|---|
| VXA 1 TAPE DRIVE (Internal) | (C1847) | $2,170 |
| VXA 1 TAPE DRIVE (External) | (C1915) | $2,495 |
| VXA 1 TAPE DRIVE (External Firewire Kit) | (B1856) | $2,980 |

### EXABYTE MAMMOTH 1 TAPE DRIVE

Industry standard backup; External 20/40 Gb capacity: (E1609) **$6,865**

### EXABYTE MAMMOTH 2 TAPE DRIVE

High capacity and speed: External 60/150 Gb capacity: (E1610) **$11,249**

## OVERLAND

*Super DLT and LTO models also available

### DLT1 AUTOLOADER

- 400 GB native, 800 GB compressed capacity
- DLT1 Single Tape Drive included
- 10 tape capacity
- Overland DLT reliability
- LVD 68 pin SCSI interface
- Includes 1 data tape and cable
- 20 GB/Hr throughput.
- 3 year factory warranty
- Optional On-site warranty.

(A0476) **$10,999**

## media

| | |
|---|---|
| DLT Tape Media IIIXT 15/30GB Tape (68362) | $80 |
| DLT Tape IV Media 20/80GB (71231) | $155 |
| DLT Cleaning Tapes (97851) | $90 |
| Super DLT Media 110/220 GB (B9825) | $309 |
| Exatape 112 - 8mm (C1976) | $12 |
| Exatape 160 - 8mm (C1980) | $22 |
| Exatape AME - 125m (C1986) | $105 |
| Exatape AME- 170m (77600) | $170 |
| Exatape AME 2-150m (C1989) | $175 |
| Exatape 8mm Cleaning Tape (C1982) | $29 |
| Exatape AME 18c Cleaning Tape (C1983) | $35 |
| Exabyte VXA1 - V6 12/24 GB (91103) | $89 |
| Exabyte VXA1 - V10 20/40 GB (C3945) | $129 |
| Exabyte VXA1 - V17 33/66 GB (91105) | $197 |
| Exabyte VXAI - 1m Cleaning Tape (91104) | $102 |
| LTO Ultrium 100/200 GB Tape (D1500) | $298 |

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# Monitors, Cameras, CD-R/RW, Back-Up Kits

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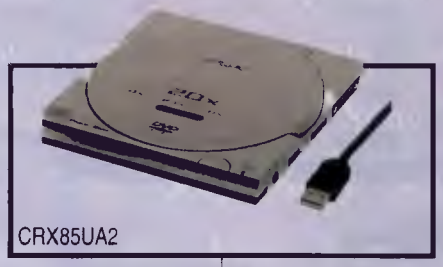
## External CDRW / DVD Combo Drives


CRX85UA2

New

CRX85AA1 - PCMCIA Interfacing, 20X Recording, 8X Rewriting, 8X DVD Playback, 24X CD Playback, Extensive Software Supplied.
(E1021) **$795**

CRX85UA2 - USB2.0 Interfacing, 20X Recording, 8X Rewriting, 8X DVD Playback, 24X CD Playback, Extensive Software Supplied.
(E1022) **$795**

## AIT Back-Up Kit

SDXD400B

SDX400B - Internal AIT 1A Back-Up Kit, 35 - 90GB (C7480) **$2,819**

SDXD400B-External AIT 1A Back-Up Kit, 35-90GB (C7478) **$3,047**

SDX500B - Internal AIT 2 Back-Up Kit, 50 - 130GB (E1026) **$4,889**

SDXD500B - External AIT 2 Back-Up Kit, 50-130GB (E1027) **$5,188**

SDX700B - Internal AIT 3 Back-Up Kit, 100 - 260GB (E1029) **$8,889**

SDXD700B-External AIT 3 Back-Up Kit, 100-260GB (E1030) **$9,764**

**All Kits supplied with cables, media and software.**
**Includes a 3 Year on-site Warranty**

## Digital Still Cameras

DSCP5

MVCFD100 - Accepts Floppy Disk and Memory Stick media, 3X Optical (6X Digital) Zoom, 2.5" Colour LCD
(E1024) **$1,199**

DSCP3 - 2.8 Mega Pixel, 3X Precision Digital Zoom, MPEG Movie EX, Max Resolution (1920 x 1440)
(D1555) **$1,145**

DSCP5 - 3.2 Mega Pixel, 3X Optical (6X Digital) Zoom, MPEG Movie EX, Max Resolution (2048 x 1536)
(D3791) **$1,559**

## LCD Monitors

SDMM81

SDMM51 - 15.1"XGA Display, Small Footprint, Built-in Stereo Speakers (B0916) **$1,249**

SDMN50 - 15" XGA Display, Ultra thin screen, black and silver design (97422) **$1,799**

SDMN80 - 18.1" SXGA Display, Ultra thin screen, grey and silver design (C8758) **$4,675**

SDMM81 - 18.1"XGA Display, Small Footprint, Built-in Stereo Speakers (B8689) **$3,849**



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# CD-RW / DVD Combo Drive, XP Home Edition

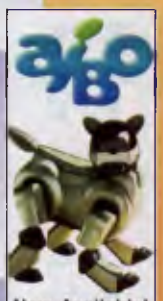
## PCGFX950

- CD-RW/DVD Combo Drive
- Windows XP Home Edition
- Celeron 900MHz
- 256MB RAM
- 20GB Hard Drive
- 14.1" XGA Display
- Internal 56kbps Modem
- Network interface
- i-LINK / IEEE1394 interface
- USB interfaces

(E0996) **$2,999**

Rent* $29.41/wk

New Model

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### Software supplied with notebooks:

- Adobe Photoshop Elements
- MovieShaker 3.2
- Symantec Norton AntiVirus 2002
- Intervideo WinDVD™ 3.1
- Adobe Acrobat Reader 5.0
- Apple Quicktime 5.0
- DVgate 2.4
- SonicStage 1.0
- PictureGear 5.1
- Smart Capture 4.2

## R505 Series Notebook

- Windows® XP Home Edition
- CD-RW/DVD Drive
- i.LINK (IEEE1394) interface
- Internal 56kbps Modem
- Network interface
- MG Memory Stick Slot
- 12.1" XGA Display
- USB interfaces
- Docking Station Included

## PCGR505AFT

- 256MB RAM
- 30GB Hard Drive
- Pentium® III 850MHz

(D4416) **$5,199**

Rent* $47.39/wk

## PCGR505AGT

- 128MB RAM
- 20GB Hard Drive
- Pentium® III 750MHz

(D4417) **$4,599**

Rent* $42.98/wk

### Memory Stick

Sony's tiny Memory Stick lets you enjoy seamless recording, transfer, storage and playback of audiovisual and other data, through a wide range of Memory Stick compatible products.

16MB (86779) **$69**
32MB (88654) **$99**
64MB (88648) **$169**
128MB (C5887) **$329**



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APC®
AMERICAN POWER CONVERSION

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# Power Back Up = Power Protection

**Back-Ups for PC's!**

350va (E1093) **$230**

500va (E0709) **$283**

350va (C5446) **$155**

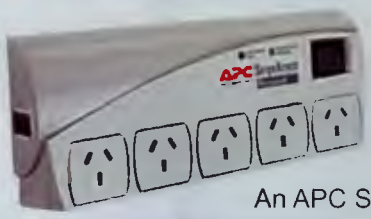
500va (C5878) **$220**

650va (56231) **$279**

**APC Symmetra** Power Array 8kVA, exp. to 16kVA (71087) **$13,999**

So good we use it ourselves!

## APC Surge Arrest-PNote Pro®



Surge Arrest 5 Strip (A0098) **$55**

An APC SurgeArrest is your guarantee that your hardware and valuable electronics are protected regardless of lightning strikes and everyday unexpected power surges. SurgeArrest also offers the best protection from line noise which can cause glitches and errors in electronic operations and computer data.

PNote Pro (99592) **$49**

The SurgeArrest Notebook Pro Surge Protector provides the mobile notebook professional with advanced AC and telephone line protection. The unique, in-line design creates a compact, lightweight surge protector that is truly portable and appropriate for use in any country throughout the world. With built-in Excess Current Detection, the Notebook Pro warns you against potential modem damage. A Velcro mounting strap and 6 ft. telephone cord eliminate the need to carry any additional accessories.

## APC Back Ups Pro® for Workstations

### Smart battery backup & high performance surge suppression for Windows 95 & NT PCs

• PowerChute® Plus software lets your UPS shut down your applications gracefully in the event of an extended power failure • Additional outlet for protection of printers • Audible alarms • Phone/modem protection • User replaceable, hot swappable batteries

APC Back-UPS Pro **280si** (76636) **$259**

APC Back-UPS Pro **420si** (76637) **$359**

APC Back-UPS Pro **650si** (76638) **$485**

## APC Smart-UPS Rack Mounts® for Servers

### Smart-UPS 700, 1000, and 1400 2U Rack Mounts

Network power protection to increase availability of your system. APC Smart-UPS 2U Rackmount features include longer runtime to keep your system safe and a 2U design to save your valuable rack space by 30%. Hot swapping batteries is also now faster and easier with the replacement battery chassis tray.

APC Smart-UPS **2u700VA** (99595) **$715**

APC Smart-UPS **2u1000VA** (99596) **$1,045**

APC Smart-UPS **2u1400VA** (99597) **$1,465**



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# Network storage you can use

MaxAttach™ network storage

## Windows platform enabled storage solutions

### MaxAttach NAS 4000 Storage Server

- Windows, UNIX/Linux, NetWare and Macintosh file sharing
- NAS Powered by Windows operating system
- RAID Levels 0,1, and 5 data protection
- ADS/NDS/NIS Support
- SCSI port for Back-up
- No per-client licence
- Up to 640GB in 1U
- NAS4000 Series has Gigabit Ethernet

### MaxAttach NAS 6000 Storage Server

NEW

- Highly scalable: 1.9TB to 5.7TB
- Redundant hot-swappable components for high system availability
- PSM snapshot software and hardware RAID for high data available
- 1 yr next-business day onsite service included, **Lifetime 24x7 Technical Phone Support**

The new MaxAttach NAS 4100 storage servers deliver seamless integration. With a Windows Powered operating system, the NAS 4000 series is network storage that you can manage with the tools you have now. From backup support, to device management, to directory services, the NAS 4000 series is the new network storage solution that you already know how to use.

- 640GB in 1U height
- PSM snapshot capability
- RAID 5, 1, and 0 data protection
- Active Directory support
- External SCSI port for local tape back-up
- Gigabit & dual 10/100 Ethernet ports
- Windows, UNIX/Linux, NetWare and Macintosh file sharing
- NAS Powered by Windows operating system

Combining the proven interoperability of a Windows-based platform with scalability to 5.7TB, the MaxAttach NAS 6000 file server enables unprecedented storage solutions. Pre-configured and ready to install, the NAS 6000 includes PSM snapshot software and hardware RAID 5 for high data availability. Redundant components deliver high system availability. To further ensure high uptime, one year of next-business day onsite service is included, with 4-hour response upgrades available.

- All MaxAttach products include 24x7 phone technical support.
- Offering interoperability certified by leading software vendors, the NAS 6000 starts at a 1.9TB configuration.

| | | | |
|---|---|---|---|
| NAS 4100 | 320GB | (B9955) | $8,854 Rent* $75.59/wk |
| NAS 4300 | 400GB | (C9243) | $9,949 Rent* $84.94/wk |
| NAS 4300 | 480GB | (D9180) | $10,995 Rent* $93.88/wk |
| NEW NAS 4300 | 640GB | (D1510) | $13,746 Rent* $112.61/wk |

**1.9Terabyte Base Unit** (D9177) **$66,598**

**1.9Terabyte Expansion Unit** (D9179) **$55,975**

Fast Delivery Australia-Wide

Web Direct

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# NETGEAR™

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# Everybody's Connecting

## Network Cards

**FA 311** Ethernet Adapter 10/100 PCI (A1372) **$42**

**FA 312** 10/100 Wake on Lan Ethernet Adapter (A1373) **$45**

**FA 411** 10/100 Mbps PC Card (Without dongle)

(B9944) **$129**

**FA511** 10/100 CardBus PC Card (without dongle (D4112) **$139**

**NETGEAR Starter Kits**

Everything you need to start networking right away. Within a few minutes you will be able to share files and printer, exchange emails, play interactive games and share access to the internet.

**SB 105** 5-Port/10Mb Hub 2x10/100, PCI, cables, internet sharing software (A3293) **$129**

**FB 105** 5-Port/10/100M Switch 2x10/100, PCI, cables, internet sharing software (A3935) **$229**

## Switches

FS 116

**FS 105** 5 port 10/100 auto-sensing switch (84722) **$159**

**FS 108** 8 port 10/100 auto-sensing switch (70905) **$249**

**FS 116** 16 port 10/100 auto-sensing switch (A5347) **$512** Rent* $5.61/wk

**FS 516** 16 port 10/100 auto-sensing and internal PSU/Vista (60522) **$859** Rent* $9.41/wk

**FS 524** 24 port 10/100 auto-sensing switch (77549) **$979** Rent* $12.96/wk

**FS 524S** 24 port 10/100 auto-sensing switch - stackable (B6540) **$1,639** Rent* $17.96/wk

## Modular Solutions

**FS726** 24 Port 10/100, 2 Module slots

(D0873) **$1,485** Rent* $16.27/wk

**FS750** 48 Port 10/100, 2 Module slots

(D0874) **$2,495** Rent* $24.47/wk

**AG711T** Copper module (D0921) **$729** Rent* $7.99/wk

**AG711F** Fibre module (D0924) **$1,049** Rent* $11.49/wk

## Managed Solutions

**FSM 726S** - Managed 24 port 10/100 switch with 2 stacking ports and 2x Gigabit ports (D8885) **$Call**

**FSM 750S** Managed 48 port 10/100 switch with 2 stacking ports and 2x Gigabit ports (D8886) **$Call**

## Gigabit Solutions

These high performance Gigabit switches provides either fibre or copper backbone connectivity for power workgroups, data centres and server farms. No additional modules are required - each product is ready to install straight from the box.

**GA 302T** 32 bit PCI Gigabit network card (D4118) **$195**

NEW **GS516T** 16 port 10/100/1000 Mbps Gigabit Switch. (D5960) **$4,989** Rent* $45.47/wk

NEW **GS524T** 24 port 10/100/1000 Mbps Gigabit Switch (D5961) **$6,450** Rent* $58.97/wk

**GA 622T** 32/64 bit PCI Gigabit network card (B9943) **$355**

**GS 504T** 4 port 100/1000 Copper switch (A1375) **$2,449** Rent* $24.01/wk

**GS 508T** 8 port 100/1000 Gigabit switch (B9916) **$2,899** Rent* $28.48/wk

**FS 309T** Gigabit Uplink Energizes Your Network (D8887) **$739** Rent* $8.10/wk

**FS 518T** 2 port 100/1000 with 16 ports 10/100 (A1374) **$2,135** Rent* $23.40/wk

**FS 517TS** 1 port 100/1000 and 16 port 10/100 stackable switch (copper) (C2299) **$1,649** Rent* $18.07/wk



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# NETGEAR™

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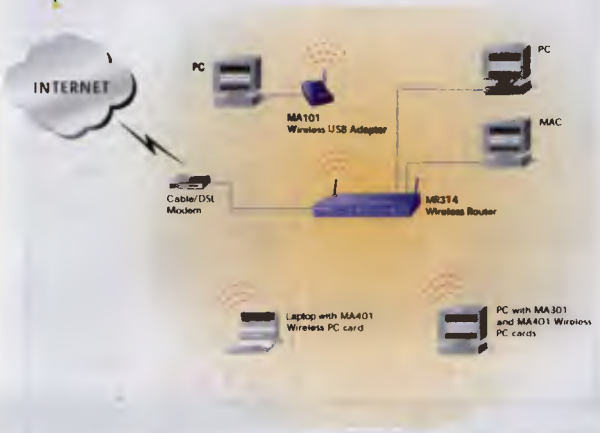
Web Direct www.ht.com.au/cat/netgear

# Wireless Networking & Routers

## Wireless

The NETGEAR wireless family means that you never have to be tied down by your cabling again. Whether you are looking to add to your wired Ethernet network or set up a new network these standards based 802.11b products allow you to share network resources without the need for cabling. These plug and play devices are easy to install are WiFi certified and come with WEP encryption.



**ME102**
Wireless Access Point
(B9929)
**$619**
Rent* $6.78/wk

**MA301**
PCI Adapter cradle
(B9927)
**$98**

**MA 101**
Wireless USB Adapter
(C7110)
**$315**

**MR 314**
Cable/DSL router with integrated 4 port 10/100 switch & built in access point
(C5223) **$679**
Rent* $7.44/wk

**MA401**
PCMCIA Adapter
(C8117)
**$319**

## Routers

NETGEAR have a comprehensive range of Cable/DSL routers. All products offer standard shared internet access with NAT Firewall security and easy installation via web based configuration and DHCP. The products are plug and play and ideal for connection to either Cable/DSL or satellite broadband services. www.netgear.com.au offers specific installation information on both Telstra and Optus services.

**RT 311** Cable/DSL router with 1 10/100 port
(97719) **$299**

**RT 314** Cable/DSL router with integrated 4 port 10/100 switch
(A8862) **$389**

**RP114** Cable/DSL router with integrated 4 port 10/100 switch and ability to control web content
(C5592) **$375**

**R0318** Cable/DSL Security router with integrated 8 port 10/100 switch
(C4896) **$509**
Rent* $5.57/wk

**FR318** Cable/DSL firewall router with integrated 8 port 10/100 switch upgrade to vpn end point
(D1526) **$748**
Rent* $8.19/wk

**FV318** Cable/DSL VPN Router includes 5 VPN end points, firewall and integrated 8 port 10/100 switch
(C2298) **$1,663**
Rent* $18.22/wk

## Enquire for pricing on Netgear 10 Mbps hubs.

## Printer Servers

The NETGEAR print servers enable you to connect your printers to a network for sharing amongst multiple PC's.

**PS 110**
10/100 Mbps Print Server, 2 parallel ports
(67226)
**$259**

**PS 113**
10/100 Mbps Print Server, 3 parallel ports
(A3287)
**$405**



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**Sales: 1300 13 9999** **Web: www.ht.com.au**
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**Delivery Australia-Wide**

BELKIN

Not all items are in stock at all stores but can be ordered for Pick-up or Delivery* Delivery charges extra

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Web Direct www.ht.com.au/cat/belkin

# Belkin Surge & Ups

## UPS SERIES

### Regulator PRO Silver Series

**Features:**

- 2 Year Unlimited Product Warranty
- 175 Joule Energy Rating
- 3 Battery Back Up/Surge Sockets
- 1 Surge Protection Only Socket
- Power Management Software Included
- 1.8m Power Cord
- Telephone/Fax/Modem and UTP
- (RJ45) Protection
- 1.83m Telephone Cable
- RS-232 Communication Cable
- EMI/RFI Filtration

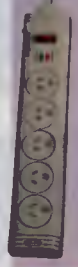
| 350VA | 500VA | 650VA |
|---|---|---|
| F6C350zSER-SB | F6C500zSER-SB | F6C650zSER-SB |
| (192 Watts) | (300 Watts) | (360Watts) |
| (C9277) | (C9278) | (C9279) |
| $189 | $249 | $329 |

*Surge control is important because even small surges or spikes can eventually destroy or affect the performance of expensive electronic equipment such as a computer, phone, fax, TV, VCR, stereo or microwave. Damage can occur either instantaneously or over time as smaller surges cause the gradual deterioration of internal circuitry, to voltage fluctuations.*

**No Hassle Warranties** Belkin offer the best Connected Equipment warranties in the business. Full warranty protection means your equipment is insured against damage due to power disturbances of all kinds - surges, spikes, even lightning strikes.

### Home Office Range

Connected Equipment Warranties up to $25,000.



**F5C205z4**

Belkin's SurgeMaster line has been designed to protect entry-level computers, dot matrix printers, personal copiers and all other sensitive electronics in the home or office. Telephone/fax/modem protection

5 socket's

27,000 Amps of AC protection

(C4603) **$79**

### Superior Grade

Connected Equipment Warranty up to $50,000.

Blocked space adapters

**F5C206z2**

Pentium III computers, audio/video equipment and office equipment need extra protection.

- 6-way Superior Grade range

AC Line protection

(C4604) **$105**

### Maximum Grade

Connected Equipment Warranties up to $80,000.

**F5C208z2**

Maximum Grade series ideal for protecting commercial business computers, ADSL and cable modems, high-end printers and copiers, and sensitive audio/video equipment such as satellite receivers and home cinema systems.

8 socket's

39,000 Amps of AC protection

(C4607) **$135**

## PDA ACCESSORIES

Belkin PDA Portable Keyboard Palm 3/5/7

(D5946) **$159**

F5U109 USB PDA Adapter

(B6768) **$59**

Belkin 4-in-1 Stylus Pen

(C4694) **$35**

## New From Belkin For 2002

### USB 4 Port Economy HUB

**F5U021-AUS**

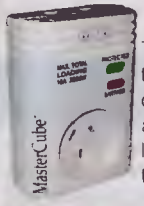
Add four USB peripherals to your PC and save your precious desktop space without adding clutter. Get Plug-and Play convenience as you add USB printers, scanners, and hard drives.

(D5950) **$45**

### Single Surge Cube

**F5C195z** (D5966) **$25**

The SurgeCube™ allows one electronic device to be protected from over voltages. It's ideal for laptops on business or personal trips, or for surge protection in a small space.




**F5C195zTEL**

The Belkin MasterCube™ protects one electronic device and one phone line from over voltages. Perfect for use with laptops on business or personal trips.

(D5956) **$35**

### USB IPAC Sync Charger

**F8Q1000**

The Belkin SYNC CHARGER CABLE for the iPAQ Pocket PC allows you synchronise and charge through any powered USB port with Ease.

(D5952) **$37**

## Don't Forget...

### USB VideoBus II

**F5U208**

You create the show yourself with your PC & camcorder merged into a desktop video studio by the Belkin USB VideoBus II. The Belkin USB VideoBus II, complete with MGI VideoWave III SE software, gives your PC the power to make stunning movies & more!

(B4412) **$145**

### USB Pocket Hub

**F5U007-UNV-AUS**

The Belkin Pocket Hub allows you to instantly connect USB devices such as printers, scanners, external mice and keyboards, joysticks, digital cameras, or other USB hubs without having to restart your computer.

(C4577) **$65**

### Stone Street

*FREE 2.1M HIGH SPEED INTERNET MODEM CABLE!

**F3L900-07-ICE-S**

The Stone Street has a fully padded computer section that measures 38.11cm x 27.95cm x 10.16cm, for the most popular notebook style computers, and a fully equipped external pocket which measures 35.57cm x 25.41cm x 6.99cm. The Belkin High Speed Internet Modem cable transmits 10 times faster than any normal telephone cable for a clean, and clear transmission.

*FREE cable comes bundled with this part, available while stocks last

(D5951) **$69**



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# Belkin Networking Solutions

## ETHERNET NETWORK

## WIRELESS NETWORK

Up to 3 Additional PC's

**F5D5000**
Desktop Network PCI Card
(C5581) **$29**

Internet

Phone Line

Cable Line

Cable/DSL Modem

Desktop

**F5D6050z**
USB Wireless Adapter
(D8216)
**$255**

**Wireless Desktop Network Adapter- F5D6000z**
CardBus & PCI Adapter
(D8211) **$90**

Desktop

**F5D6130z**
Wireless Network Access Point
(D8217) **$495**

**F5D5130z5**
5 Port Network Switch 10/100
(D4192) **$134**

**F5D5230z4**
4 Port Cable/DSL Gateway Router
(D5943) **$349**

Laptop

**Notebook or CardBus Network Card**
**F5D5020**
10/100Mbps PCMCIA NIC - 16 Bit
(C5583) **$99**
**and F5D5010**
10/100Mbps CardBus NIC - 32 Bit
(C5582) **$99**

OR

**F5D6230z3**
Wireless Router (3 Port)
(D8219) **$579**

**Wireless Notebook Network- F5D6020z**
Wireless PCMCIA (D8213) **$249**

| | |
|---|---|
| | CAT5 Network Cable |
| | USB Cable |
| | Cable Line |
| | Phone Line |
| - - - - | Wireless Link |

Cables are not inluded in prices

Web Direct

See Web Direct Link (at top of page) for more products and latest info!

Wine on-line?

VINTAGE CELLARS

vintagecellars.com.au

# Belkin - KVM Switches

## KVM ESeries

**F1DB102P**
Economy-
2 Port KVM Switch - P/S 2

(D3162) **$84**

**F1DB104P**
Economy-
4 Port KVM Switch - P/S 2

(D3159) **$175**

## KVM SoHo Range(Keyboard, Video, Mice & Sound Switching)

**F1DS102P SoHo**
2 Port KVM Switch - P/S 2 (D3163) **$289**

**F1DS104P SoHo**
4 Port KVM Switch - P/S 2 (D3166) **$369**

**F1DS102T SoHo**
2 Port KVM Switch - P/S 2 & USB (D3165) **$299**

**F1DS104T SoHo**
4 Port KVM Switch - P/S 2 & USB (D3167) **$385**

**Don't forget to include your Belkin All-In-One cables** The easiest & neatest way to connect all your computers and servers to your PS/2 & USB KVM switches, providing image clarity for high-resolution applications.

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HARRIS TECHNOLOGY™ Technology Centre
at Kmart Broadway-Sydney

SONICWALL

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Web Direct www.ht.com.au/cat/sonicwall

# SonicWall – Single Stop Security

Not all items are in stock at all stores but can be ordered for Pick-up or Delivery#

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Delivery charges extra

In just one SonicWall firewall appliance, you get

- ICSA-certified, stateful packet inspection firewall
- IPSec VPN for remote access
- IP address management features
- Authentication capabilities
- Network anti-virus
- Content filtering
- Reporting features
- Redundancy options
- Vulnerability scanning services and more

PLUS the new ASIC-Based processor gives you performance ten times faster at lower prices. Starting from the entry-level model @ 75 Mbps firewall throughput up to the gigabit multi interface model @ 1.67 Gbps firewall throughput, the SonicWall firewall range is a cost effective versatile solution for IT security managers.

Now you can collect Fly Buys points when you purchase from HARRIS TECHNOLOGY™

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | PRO 200 unlimited users | (E8159) | $6,209 |
| Tele3 5 user | (E0969) | $1,100 | SOHO3 50 user | (E0971) | $2,169 | PRO 300 unlimited users | (E0974) | $8,224 |
| SOHO3 10 user | (E0970) | $1,095 | PRO 100 unlimited users | (E0576) | $3,829 | GX 2500/2500 | (E0975) | $25,509 |

Swann COMMUNICATIONS

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# Swann. More than modems!

SwanFire CardBus FireWire PCMCIA Card

(C2307) $129

Swan SmartCam WebCam

(C6794) $69

## SWANN SPEED DEMON

**56K V.90 External Voice/Fax/Data Modem**

- New graphite version!
- Great value for money
- Bonus Telstra "100 hours" Internet Access CD
- Drivers and application CD included
- 1 year "Hassle Free" warranty

(B7970) $95

## SWANN USB MULTI-HUB

**USB 4-Port Hub**

- Easy and convenient access to USB ports
- Allows "Hot Swapping"
- PC & Mac compatible
- Supports bus-powered and self-powered USB peripherals (including printers, scanners, modems, keyboards and mice)
- 1 year "Hassle Free" warranty

(C6793) $55

## SWANN SPYCAM

(A8661) $139

**Miniature Video Camera**

- Low cost security solution
- Tiny size for undetected surveillance
- Easy installation
- Connect to a TV or VCR
- 1 year "Hassle Free" warranty

## SWANN FIREWIRE® PRO DV KIT

**Everything you need for easy and fun digital video editing**

- Captures full screen video from your camera to your computer's hard drive with transfer speeds of up to 400Mbps
- Complete kit with FireWire PCI Card, comprehensive software, bonus headset and FireWire 6pin-4pin cable
- 1 year "Hassle Free" warranty

(A1794) $179

NOW WITH ULEAD® 5 DVD EDITION

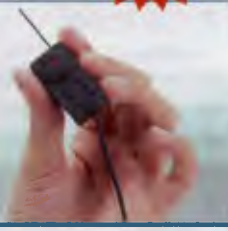
## SWANN FIREWIRE® STARTER KIT

- Captures full screen video from your camera to your computer's hard drive with transfer speeds of up to 400Mbps
- Bundled with the latest version of Ulead® 5 VideoStudio™ DVD Edition – Make your own VCD, SVCD or DVD home movies
- 1 year "Hassle Free" warranty

(75886) $129

NOW WITH ULEAD® 5 DVD EDITION

## SWANN WIRELESS MICROCAM



- Completely wireless
- Connects to TV, VCR or Video Monitor
- Superior Quality CMOS colour lens
- Up to 100m Transmission Range
- Full motion crisp colour picture

(E5312) $599

Swann also provides other quality and cost effective security solutions for your home or office (including SecureCam, SecureView Monitor, SpyCam Accessories, & Wireless Guardian) – please visit our website below for further information.

*Internet: www.swann.com.au Tech Support: 1300 13 8324 or tech@swann.com.au*



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COMMITMENT TO QUALITY

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Web Direct www.ht.com.au/cat/comsol

# Intelligent KVM and USB Products

## Serverlink KVM Switches

The ServerLink Infinity range of Auto KVM switches allow you to control multiple PCs or network servers with one monitor, keyboard and mouse. All ServerLink KVM switches feature **On-Screen-Display** and keyboard & mouse emulation to guarantee error free switching and flawless booting.

**ServerLink Infinity Range**

SERVERLINK INFINITY

AUSTRALIAN MADE

3 YEAR WARRANTY

| | | | |
|---|---|---|---|
| SL-221 | 2 port ServerLink KVM for PS/2 only | (B3047) | $270 |
| SL-221-P | 2 port ServerLink KVM inc. 2 x 2m PS/2 cables | (B3048) | $317 |
| SL-421 | 4 port ServerLink KVM for PS/2 only | (A9890) | $349 |
| SL-421-P | 4 port ServerLink KVM inc. 4 x 2m PS/2 cables | (B2759) | $440 |
| SL-821 | 8 port ServerLink KVM for PS/2 only | (97888) | $979 |
| SL-821-P | 8 port ServerLink KVM inc. 8 x 2m PS/2 cables | (97889) | $1,159 |
| SL-1621 | 16 port ServerLink KVM for PS/2 only | (97890) | $1,599 |
| SL-1621-P | 16 port ServerLink KVM inc. 16 x 2m PS/2 cables | (97891) | $2,019 |
| SL-CKP-02 | 2m 3-in-1 Comp. to ServerLink cable for PS/2 | (63972) | $27 |
| SL-CKP-03 | 3m 3-in-1 Comp. to ServerLink cable for PS/2 | (D0973) | $38 |
| SL-CKP-05 | 5m 3-in-1 Comp. to ServerLink cable for PS/2 | (63976) | $59 |

Fast Delivery Australia-Wide

## Cybex AutoView 200 KVM Switch

Control up to 8 computers simultaneously from 2 locations. The second user can be up to 150 metres away using standard Cat5 UTP cabling.

FULL RANGE OF CYBEX PRODUCTS AVAILABLE!

CYBEX

| | | | |
|---|---|---|---|
| AV200R-8 | 2 user 8 port KVM switch for PS/2 & AT/Serial | (97950) | $2,965 |
| RMK-33 | 19" Rack mount kit for AV200R-8 | (77284) | $55 |
| CIFCA-4 | 1.2m 3-in-1 Comp. to AutoView cable for PS/2 | (B6728) | $84 |
| CIFCA-8 | 2.6m 3-in-1 Comp. to AutoView cable for PS/2 | (B9703) | $120 |
| CIFCA-15 | 5m 3-in-1 Comp. to AutoView cable for PS/2 | (B5488) | $196 |

## Comsol USB to IrDA Adapter

This adapter is for enabling IrDA wireless data communication through a standard USB port. Ideal for wireless data transfer between desktop PC and notebook or PDA.

| | | | | |
|---|---|---|---|---|
| UIR-100 | USB to IrDA wireless adapter | NEW | (D8944) | $129 |

## Comsol USB Adapter Cards

| | | | | |
|---|---|---|---|---|
| UPCI-100 | 2 port USB PCI controller card | | (B4493) | $44 |
| UPC12-100 | 5 port USB 2.0 PCI controller card - 480 Mbps | NEW | (D8945) | $124 |

## Comsol FireWire Solutions

UP TO 400Mbps

| | | | |
|---|---|---|---|
| 1394-PCI | 3 port IEEE1394 FireWire PCI card | (D8946) | $79 |
| 1394-601 | 6 port IEEE1394 FireWire Repeater | (D8947) | $148 |

## Comsol USB Hubs

| | | | |
|---|---|---|---|
| UH-201 | 2 port USB Hub | (82695) | $47 |
| UH-401 | 4 port USB Hub | (82696) | $60 |
| UH-701 | 7 port USB Hub | (82697) | $105 |

## Comsol USB Converters

| | | | |
|---|---|---|---|
| UPC-100 | USB to IEEE1284 printer converter | (82692) | $55 |
| UMC-100 | USB to RS232 9 pin serial converter | (80782) | $70 |
| UEC-100 | USB to 10/100 Ethernet converter | (82594) | $145 |
| UKMC-100 | USB to PS/2 KB & Mouse converter | (B0557) | $70 |
| USC-100 | USB to SCSI 2 (HPD50M) converter | (D0937) | $180 |

Web Direct

See Web Direct Link (at top of page) for more products and latest info!



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See Page 2 for Locations

# D-Link®

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Web Direct www.ht.com.au/cat/dlink

# Small-Medium Business Networks

## ADSL Modem /Router

**DSL-504** ADSL Router with 4 port 10/100 Switch Connect single or multiple PC's on an Ethernet LAN to an ADSL (C7593) **$629**

**DSL-200** USB ADSL Modem. Plug and Play USB interface with the host PC through a USB port (B7197) **$299**

**DSL-300** Ethernet ADSL Modem Connect single or multiple PC's on an Ethernet LAN to an ADSL (B7198) **$399**

**DSL-100D** Internal PCI ADSL Modem Compatibile for Windows based PC's to connect via G.lite ot G.dmt (B7196) **$229**

**DSL-500** ADSL Router Connect single or multiple PC's on an Ethernet LAN to an ADSL (D0801) **$435**

## IP Router for ADSL/Cable Modem

**DI-713P** 11 Mbps Wireless IP Router for x DSL and Cable modems with 3-port 10/100M switch and print server (C7596) **$745**

**DI-804** IP Router for DSL and Cable Modems with 4-port 10/100Mbps Switch. Bigpond Cable Login Built-In (C2361) **$369**

**DI-701** 10/100 IP Router for xDSL and Cable Modems. Internet ready. (98249) **$285**

## 10/100 Switches

**DES-1024R+** 24-Port 10/100 Mbs Fast Ethernet Switch, Optional 2-Port 100 Base FX Fiber (DES-102F) (98256) **$849**

**DES-1005D** 5 Port 10/100Mbs Fast Ethernet Switch with 5 x N-Way UTP Ports. Palm Size (85101) **$149**

**DES-1008D** 8 Port 10/100Mbs Fast Ethernet Switch with 8 x N-Way UTP Ports. Palm Size (98254) **$239**

**DES-1016R+** 16 Port 10/100 Mbs Fast Switch, Optional 2-Port 100 Base FX Fiber (DES-102F) (D4164) **$699**

**DES-1032** 32 Port 10/100Mbs Fast Ethernet Unmanaged Switch with 32 N-Way UTP Ports. Rackmount Size (B7165) **$1,299**

## Gigabit Solution

Copper Gibabit

**DES-1009G** Gigabit ethernet Switch 8 Port 10/100Mbps Unmanaged Switch with 1 Port 1000Base T Gigabit (Copper) (D1196) **$749**

**DGE-550T** PCI Bus Copper (RJ45 Connector) Gigabit Ethernet Adapater (C7658) **$218**

**DGS-1008T** 8 Port Unmamaged Copper Gigabit Ethernet Switch. 8 x 10/100/1000 Mbps Auto Negotiating Port (D9338) **$Call**

**DES-1218** Gigabit Ehternet Switch Unmanaged - 16 Port 10/100Mbps with Optional 2 x 1000 Base T Ports (DES122T) (B7166) **$975**

Web Direct

See Web Direct Link (at top of page) for more products and latest info!

For all your small to medium business and home network needs please call for more information and pricing. We have an extensive range of fantastic D-Link products on our database.

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# Home Networking

## Wireless Solutions

New Product

**DWL-1500**
D-Link Air 11 Mbps Wireless LAN Indoor Bridge with POE Ethernet to Wireless LAN multiponit Bridge or Access Point. Built in Power over Ethernet. (D9147) **$820**

**DWL-905** Wireless LAN Starter Kit. 2x DWL-650 & 1x DWL-1000AP (C0713) **$990**

**DWL-650** 11 Mbps Wireless LAN PCMCIA Card (A9247) **$245**

**DWL-520** 11 Mbps Wireless LAN PCI Adapter New Product (D9148) **$365**

**DWL-1000AP** 11Mbps Wireless LAN Access Point (A9251) **$584**

## Ethernet Networking

**DFE-910**
Performance Network Kit 2 x 10/100 MB PCI Network adapters (88060) **$275**

**DSS-5+** 5 Port 10/100 Mps Dual Speed Switch (89269) **$169**

**DSS-8+** 8 Port 10/100 Mps Dual Speed Switch (C2935) **$289**

**DE-805TP** 5 Port 10 Base-T Ethernet Unmanaged Hub (88048) **$74**

**DFE-530TX+** PCI-bus10/100M Fast Ethernet Network Interface Card (88046) **$42**

**DSS-16+** 16 Port 10/100 Mps Dual Speed Switch (D1525) **$528**

## USB Peripherals

New Product

**DSC-100**
USB Multi-purpose Digital Camera. Multi-purpose 100k digital camera, record up to 100 still images or 50 seconds of Video. Max Resolution of 352 x 288 (D0985) **$137**

**DSB-500** 2 Port USB PCI Adapter, provides PC with ability to connect USB devices (D0984) **$45**

**DSB-V100** USB Digital Video Capture Device, connect VHS camcorder or VCR to a PC (C2366) **$135**

**DU-H4** 4 USB Type A ports for Downstream connection to 4 USB devices, 1 USB Type B port for Upstream (79131) **$82**

**DSC-350** Dual mode Digital Still camera. USB Multi-purpose 350k Digital Camera. Records up to 500 still images or 4.5 mintues of video. Max. resolution 1024 x 768 (B3268) **$279**

## KVM Switches

New Product

**DKVM-08LB**
8 Port Keyboard-Video-Mouse Switch with Keyboard, Mouse & 15 "TFT LCD Screen", Connects up to 8 CPU's. Up to 8 DKVM-08LB can be cascaded supporting 64 CPU's. 19'Rackmount. (D9145) **$4,052**

**DKVM-2**
2 Port Keyboard-Video-Mouse Switch. Connect up to 2 CPU's to one Keyboard, Video & Mouse. (C7576) **$169**

**DKVM-4** 4 Port Keyboard-Video-Mouse Switch. Connect up to 4 CPU's to one Keyboard, Video & Mouse (C7604) **$340**

**DKVM-8** 8 Port Keyboard-Video-Mouse Switch. Connect up to 8 CPU's to one keyboard, Video & Mouse (B2656) **$849**

HARRIS TECHNOLOGY.
for all your computer needs!

Ask About...

- Extend to a total of 3 Years Return to Base
- Extend to a total of 5 Years Return to Base
- Upgrade Return to Base of Warranty Extension to On-Site

Not all items are in stock at all stores but can be ordered for Pick-up or Delivery#

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#Delivery charges extra.





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Fax: 1300 13 6666 Email: sales@ht.com.au

Order on-line www.ht.com.au

symantec.

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Web Direct www.ht.com.au/cat/symantec

# The leader in Internet Security

## Symantec Firewall/VPN Appliance (Models 100, 200, 200R)

For small offices or large organisations with remote or branch offices, the Symantec Firewall/VPN Appliance is an integrated office networking and security appliance that enables quick, easy, and secure access to or from the Internet. Symantec Firewall/VPN Appliance;

- Provides high-speed access, reliable connectivity, ample bandwidth, and easy remote management and monitoring.
- Provides secure Internet connectivity and protects networks with integrated firewall functionality.
- Enables secure remote access to your office from other locations with built-in VPN capability
- Delivers security and networking for small offices and remote office locations with a single, multi-function device.
- Ensures secure, cost-effective access to networks for remote offices and business partners through an integrated IPSec VPN.

**Easy-to-Use, All-in-One Appliance** comes in three models to meet varying network traffic and remote access requirements, with no per-user licensing requirements. Installs quickly and easily, offering small offices a turnkey solution for securing outbound and inbound Web, email, FTP traffic, and more.

Not all items are in stock at all stores but can be ordered for Pick-up or Delivery#

HARRIS TECHNOLOGY.

Delivery charges extra

SYMANTEC FIREWALL/ VPN APPLIANCE EARNS EDITORS' CHOICE AWARD FROM PC MAGAZINE

Five-Star Rating Puts Appliance at Top of Security List for Small Offices

- **Symantec Firewall/VPN Model 100**
  (5 ports)—Provides plug and play networking, web access, and firewall and VPN security for up to 25 users*.

  (E0950) **$1,099RRP** Rent* $12.04/wk

- **Symantec Firewall/VPN Model 200**
  (10 ports)—Brings firewall and VPN protection, load-balancing, and high availability to offices with up to 40 users*.

  (E0960) **$1,999RRP** Rent* $21.91/wk

- **Symantec Firewall/VPN Model 200R**
  (10 ports)— Brings firewall and VPN protection, load-balancing, and high availability to offices with up to 40 users*. Also includes the remote Symantec VPN Client (with integrated personal firewall) that lets you set up a remote virtual private network to securely connect mobile users.

  (E0963) **$2,599RRP** Rent* $25.49/wk

*No license limitation on the number of users/nodes.*

DON'T FORGET your Fly Buys points!

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Pioneer

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Web Direct www.ht.com.au/cat/pioneer

# Multimedia: DVD & Blank Media

Pioneer

## DVD-A06SZ 16x
## SLOT LOADING DVD-ROM DRIVE UPGRADE KIT

DVD ROM

*FEATURES*

- 16x for DVD, 40x for CD
- Ultra DMA66
- Super quiet mechanism
- Vertical or horizontal mounting

*INCLUDES:*

- Power DVD software decoder
- Mounting screws & audio cable
- Pioneer DVD-ROM Drive (2 year warranty)

**Includes: 5 x DVD movie rental vouchers from Blockbuster Video**
(included inside product box - see voucher for conditions and expiry dates)

FLY BUYS. 500 BONUS POINTS

DVR-A06SZ (D1015) **$195**

Collect 500 Bonus Fly Buys points when you purchase D1015 between 20/02/02 - 30/03/02

Web Direct

See Web Direct Link (at top of page) for more products and latest info!

Pioneer
### DVD-R MEDIA

NEW

• Jewel Case • Memory-capacity of 4.7GB • Suitable for DVD Video & Data backup • Playable on both DVD-Video players & DVD-ROM drives • Commercial and Home DVD-Video production • Large sized data archive storage (not for use with Pioneer DVR-S201 authoring drive)

DVS-R47A (DVD-R) (D9299) **$19**

DVS-RP470SDF •White printable version (C2322) **$22**

Pioneer
### DVD-RW MEDIA

NEW

Rewritable DVD media : Jewel case : Memory capacity of 4.7GB: Suitable for DVD video & data : (not for use with Pioneer DVR-S201 authoring drive)

DVS-RW47B (DVD-RW) (D9300) **$28**

Ask About...

MAR 27

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Web Direct www.ht.com.au/cat/verbatim

# Digital Memory & Readers

Ask About...

## PRETEC CompactFlash

With CompactFlash Digital Film you can increase the storage capacity of any compatible digital camera or PDA.

| | | |
|---|---|---|
| 16MB CompactFlash | (B2920) | $45 |
| 32MB CompactFlash | (B2921) | $62 |
| 64MB CompactFlash | (B2922) | $99 |
| 96MB CompactFlash new | (D9286) | $143 |
| 128MB CompactFlash | (B2923) | $175 |
| 256MB CompactFlash new | (C0777) | $352 |

## PRETEC SmartMedia

SmartMedia cards expand the storage capacity of any compatible digital camera. Suitable for digital cameras from Olympus, Fuji and others.

| | | |
|---|---|---|
| 16MB SmartMedia | (B2915) | $29 |
| 32MB SmartMedia | (B2916) | $49 |
| 64MB SmartMedia | (B2917) | $93 |
| 128MB SmartMedia | (C3680) | $187 |

## PRETEC MultiMedia Cards

MultiMediaCard is the world's smallest removable flash storage card! Suitable for MP3 players, Mobile phones and Digital Video Cameras.

| | | |
|---|---|---|
| 16MB MultiMediaCard | (B9871) | $59 |
| 32MB MultiMediaCard | (B9873) | $88 |
| 64MB MultiMediaCard | (B9878) | $153 |

## PRETEC Secure Digital Cards

Secure Digital media features faster data transfer rates and the ability to manually write-protect data.

| | | |
|---|---|---|
| 16MB SecureDigital | (D4115) | $68 |
| 32MB SecureDigital | (D4116) | $108 |
| 64MB SecureDigital | (D4117) | $175 |
| 128MB SecureDigital new | (D5918) | $352 |

## Verbatim

**Slim-line PC Card CD-ROM Drive**

*"Add a CD-ROM to your Laptop!"*

This 24x CD-ROM drive will connect to any PC Card enabled PC or Notebook & is ideal for mobile computing.

(97766) **$299**

**DVD8X**
- PC Card Portable 8x DVD-ROM drive

(B2931) **$605**

**CDRW4X**
- PC Card Portable 4x4x20 CD-RW drive

(C7205) **$489**

## Memory Card Adapters

**SDMCA** PC Card 4-in-1 Card Adapter (D4139) **$119**

**CFCA** PC Card CompactFlash Card Adapter (C2422) **$22**

**CFCAP** PC Card Compact Flash+ Card Adapter (D4147) **$33**

**SMCA** PC Card SmartMedia Card Adapter (B2918) **$99**

## USB Digital Memory Readers

Exchange data between your PC, laptop, MP3 player or Digital Camera.

**UISDMC1** USB 4-in-1 Socket + Compact Flash Card Drive (D4155) **$164**

**UISC3** USB SmartMedia and CompactFlash Card Drive (B2926) **$85**

## 4-in-1 Readers

4-in-1 readers have a unique single socket which will take Secure Digital Card, MultiMediaCard, Memory Stick and SmartMedia.

## PCI Cards

Add super fast serial and parallel ports. Interfaces to any PCI equipped PC.

(90688)

**Priced from $66**

## FireWire Digital Memory Readers

| | | | |
|---|---|---|---|
| POCFFW | FireWire CompactFlash Card Drive | (D4161) | $105 |
| POSMFW | FireWire SmartMedia Card Drive | (D4162) | $127 |
| MIMKFW | FireWire Memory Stick Card Drive | (D4163) | $138 |



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## Copying and Connectivity

Verbatim

### CopySmart CD Copier

BONUS FREE* CD's
8x and 16x only
*(refer to side panel for redemption details)

Copy discs with a single button press.
Standalone - no PC required.

50 FREE* DISCS
**8x** (B2904) **$899**
Rent* $9.85/wk

100 FREE* DISCS
**16x** (B9843) **$1,320**
Rent* $15.07/wk

NEW **24x** (E1148) **$1,615**

***ON REDEMPTION:**
Bonus CD's sent after registration of goods: registration form in boxes.
Only available while stocks last.

### KOUWELL TK PCI Firewire Cards

Connect your digital video camera to your PC. Download and edit your own movies.

| | | |
|---|---|---|
| PCI Firewire Card – 4 ports | (90689) | $88 |
| PCI Firewire Card – 6 ports | (A5161) | $119 |
| PCI Firewire Repeater Card – 5 port | (A5162) | $98 |
| PCI Firewire Repeater – 6 port | (A5163) | $154 |
| PCI Firewire Repeater – 10 port | (A5164) | $198 |
| 6 pin to 6 pin Firewire cable | (B2905) | $13 |

### KOUWELL TK USB Hubs & Cards

| | | |
|---|---|---|
| USB Hub – 6 ports | (79702) | $65 |
| PCI USB Card – 2 ports | (84801) | $29 |
| USB Network Cable | (B2908) | $60 |
| USB to Printer Cable | (84803) | $33 |
| Internal 3.5" USB Hub – 4 ports | (B2909) | $49 |
| USB to 10/100 Ethernet Adapter | (B2912) | $88 |

### FireWire for Notebook

Adds two FireWire ports to your Notebook with a Cardbus Type II interface.
- Plug and Play!
- **Free** video capture and editing software.

FireWire to CardBus controller (2 port)
(B9849)
**$109**

### KOUWELL TK PCI SCSI Cards

NEW 160MB Card

The easy way to expand your PC. Connect multiple SCSI devices to one card.

| | | |
|---|---|---|
| PCI Bus, Ultra-SCSI | (90681) | $69 |
| PCI Bus, Ultra-Wide | (90683) | $154 |
| PCI Bus, 2 channel Ultra-Wide | (90684) | $340 |
| PCI Bus, Ultra2-Wide | (90685) | $245 |
| PCI Bus, Ultra 160 | (B9847) | $438 |

### KOUWELL TK IDE Acceleration & Expansion Card

ULTRA ATA/100

Speed up your PC's new hard disk drives with this PCI plug in Ultra DMA 100 card. Supports transfer speeds of up to 100MB/s with new ATA100 drives, and includes the ability to run up to 4 extra IDE or ATAPI drives on your system.

| | | |
|---|---|---|
| PCI IDE Ultra DMA 100 Card | (90688) | $60 |
| PCI IDE Ultra DMA 100 RAID Card | (B8410) | $88 |

### USB 2.0

HI-SPEED CERTIFIED USB

Introducing USB 2.0. Faster than FireWire. Compatible with existing USB peripherals.

5 port Card (B9850)
**$105**

4 port Hub (B9851)
**$109**



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# CD / DVD Production Equipment

PRIMERA TECHNOLOGY INC.

## Signature IV CD Printer

- 1200x1200 dpi res
- Fast: 27 seconds per disc.

(B9917) **$3,298**
Rent* $32.34/wk

See page 31 for Inkjet Printable Discs

PRIMERA TECHNOLOGY INC.

## Signature Pro CD Printer

- 2400dpi
- Superfast
- Dual Ink Cartridges

(C3681) **$4,069**
Rent* $38.02/wk

See page 31 for Inkjet Printable Discs

PRIMERA TECHNOLOGY INC.

## Inscripta Printer

- 610 x 305 dpi Thermal
- Durable finish

(B2932) **$5,999**
Rent* $54.68/wk

See page 31 for Thermal Printable Discs

PRIMERA TECHNOLOGY INC.

## Composer

NOW 24x

Premastering software Included- optional inkjet printer shown

### 1 x CD-R

Composer CD-R 24x, 50 disc
(D5895) **$5,435** Rent* $49.54/wk

### 1 x DVD-R

Composer DVD-R 2x/8x, 50 disc
(C5561) **$8,359** Rent* $72.53/wk

### 2 x CD-R

ComposerPro CD-R 24x, 100 disc
(D5896) **$8,375** Rent* $72.66/wk

### 2 x DVD-R

ComposerPro DVD-R 2x/8x, 100 disc
(D4190) **$13,095** Rent* $107.27/wk

Add a printer from those shown at left and an adapter plate to upgrade your Composer/ ComposerPro to a full burn and print solution.

Printer Stand for Inscripta Printer
(B8878) **$99**

Printer Stand for Signature III/IV/Pro Printer (C1748) **$99**

### Buzzsaw Network Burning Software

This unique software allows your Composer/ ComposerPro to be networked in an office so that anyone can start up and monitor recording and printing jobs.

Rent* $22.54/wk (D0538) **$2,299**

RIMAGE™

## Desktop Series

NEW RANGE

Premastering network software included. Software developers kit also included.

Printer included as standard

### 1 x CD-R

Desktop 800 24x, 60 Disc
(D4141) **$10,050** Rent* $85.81/wk

### 1 x DVD-R

Desktop 800 2x/8x, 60 Disc
(D4148) **$11,854** Rent* $97.11/wk

### 2 x CD-R

Desktop 1000 24x, 50 disc
(D4143) **$17,110** Rent* $138.19/wk
Desktop 4000 24x, 50 disc
(optional 110 disc)
(D4144) **$20,820** Rent* $168.16/wk

### 2 x DVD-R

Desktop 1000 2x/8x, 50 disc
(D4151) **$20,409** Rent* $164.84/wk
Desktop 4000 2x/8x, 50 disc
(optional 110 disc)
(D4152) **$23,707** Rent* $191.47/wk

### 4 x CD-R

Desktop 4000 24x, 50 disc
(D4145) **$22,264** Rent* $179.82/wk

### 4 x DVD-R

Desktop 4000 2x/8x, 50 disc
(D4154) **$28,036** Rent* $226.44/wk



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## CD-R/CD-RW & DVD-R/DVD-RW: Storage for life

### DataLifePlus CD-R - 24x

80 Min. 700MB 1x - 24x 10 Pack (D4114) **$13**

80 Min. 1x - 24x Singles (D5933) **$2**

### DataLifePlus CD-R Audio

80 Min. 10 pack (C7889) **$18**

80 Min. Singles (D0011) **$3**

### Pocket Colours 8cm CD-R

21min 185MB 1x - 16x, 5 Pack (D9192) **$9**

21min 185MB 1x - 16x, 10 Pack (C9459) **$18**

### DataLifePlus Colours CD-R

80 Min. 700MB 1x - 24x coloured CD-R's in a 25 pack (B1355) **$30**

80 Min. 700MB 1x - 24x coloured CD-R's in a 10 pack (D9227) **$13**

### Printable CD-R Media In Spindles of 50

Inkjet Printable 74 min 12x (93471) **$57**

White Thermal Printable 74 min 12x (D5963) **$57**

Silver Thermal Printable 80 min 16x (D0562) **$57**

### DataLife CD-R

- Third generation Phthalocyanine Recording Dye Technology
- Scratch Resistant Surface

80 Minute DataLife SlimCase 10 pack 16x (C7091) **$12**

80 Minute DataLife Spindle 25 pack 16x (C7093) **$27**

### DataLifePlus DVD Media

NEW

4.7 GB DVD-R for General Data Singles (C8840) **$19**

4.7 GB DVD-RW (C8841) **$26**

4.7 GB DVD+RW (D9166) **$26**

### DataLifePlus CD-RW

700MB CD Rewritable 2x-4x 5 Pack Colours (D9230) **$13**

NEW

2x - 4x Singles (77492) **$2**

4x -10x Singles (B2658) **$3**

### Verbatim Digital Media

#### CompactFlash

16MB (C8984) **$45**
32MB (C8986) **$62**
64MB (C8987) **$99**
128MB (D0020) **$175**
256MB (D9232) **$352**

#### SmartMedia

16MB (C8989) **$29**
32MB (C8990) **$49**
64MB (C8991) **$93**
128MB (D9233) **$187**

#### MultiMedia Cards

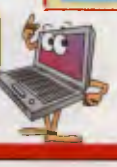
16MB (C8994) **$59**
32MB (C8995) **$88**
64MB (C8996) **$153**

### DataLife Neons

Neon Coloured floppy disks for easy filing.

(C9753) **$9**

**Did you know...** Verbatim DataLifePlus CD's represent the latest in technology. Featuring a proprietary blue Metal-Azo dye which has the best resistance to sunlight, silver reflective layer for optimum read and write performance and multispeed recording.





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# CD-R/W & Caching Towers

Now you can collect Fly Buys points when you purchase from HARRIS TECHNOLOGY.

## PLEXTOR PlexWriter 24/10/40A E-IDE

(C7688) **$449**

**High speed – High Quality – New writing strategy – POWEREC II High Reliability – Save your disc – BURN Proof.**

The PlexWriter 24/10/40A E-IDE (ATAPI) drive, with built-in BURN-Proof technology, delivers exceptionally fast performance in a professional 3-in-1 CD solution, while upholding the legendary Plextor reliability.

**How does PoweRec-II function?**

PoweRec-II checks the quality of a disc in order to set up the appropriate writing speed and optimised laser power for the disc. This technology promises, in Zone CLV, excellent writing in each area of the disc. The PlexWriter records CD-R discs at 24X speed, rewrites CD-RWs at 10X, and reads back all CDs at 40 speed. BURN Proof (Buffer Under RuN - Proof) enables you to stop writing before buffer under run errors occur and then to continue writing by tying last point of recording and the next start point ... no more drink coasters. These drives are the best of the best. Comes with software, cables, manuals, ready for installation.

Wine on-line?
VINTAGE CELLARS
vintagecellars.com.au

## PLEXTOR Portable For Notebooks & PC's 8/8/24 USB

It's the first-ever portable slim CD-R/RW drive from Plextor with 8 Speed writing and 8 Speed rewriting by full CLV technology with "BURN-Proof" and 24 speed reliable readying. The PX-88TU features USB 2.0 interface (maximum transfer rate of 480Mbps). The PX-88TU's unique see-through window enables easy identification of the disc inside the drive for both 12 and 8cm discs. All Plextor drives are supplied with:

- MVP 2000 Create a digital jukebox and customized play lists, Record audio CDs from the play list on CDR, Automated internet access to the CDDB database supplies album, song and artist information.
- Audio FS – allows for Drag & Drop access to any CD-Audio track as if they were .WAV files.
- Audio Capture 2000 - Drag & Drop tracks from standard audio CDs
- Plextor Manager 2000 utility software
- Disc Dupe 2000 – Duplicate your own CDs

(D0372) **$718** Rent* $7.87/wk

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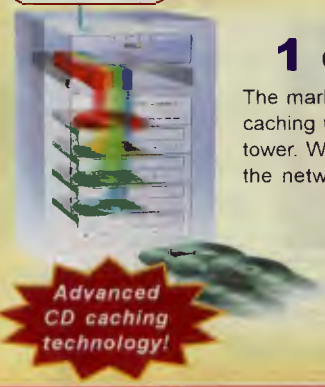


## How to put up to 254 CD's into 1 convenient central 5 bay CD tower

The market leading CD tower offers fast and simple sharing of CD (and DVDs) on your network. New caching technology enables you to quickly store 100's of CD's onto a built-in fast hard disk within the tower. With the new optional CD-R/RW feature, the CD tower can also feature 'writing to CD' across the network.

- Axis technology at the heart of the CD Tower
- NEW optional CD-R/RW function enables you to burn to CD across the network
- True plug n play NAS device - The Optistor CD tower can be plugged in anywhere
- In built web server for easy web browser management

(B6595) **FROM $3,195** Rent* $31.33/wk



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iomega

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# Smart Storage Solutions

## Zip 100 USB Powered

**An affordable total storage solution as easy to use, but far superior to, the floppy drive**

Iomega's Zip® 100MB USB-Powered drive is affordable, reliable, easy to use and has a sleek, durable design powered through the USB cable for complete plug-and-play compatibility.

(D0587) **$185**

## Peerless

10GB Storage

The next generation in high-capacity removable storage. Iomega's Peerless(TM) drive system offers 10GB and 20GB disks, interchangeable interfaces, and 15MB/sec transfer rates for stunning performance. Firewire® and USB 1.1 interfaces available.

FLY BUYS 500 BONUS POINTS

USB 1.1 10GB

(C3525) **$835**

*Rent: $9.15/wk

| | |
|---|---|
| Zip 100MB disk (23772) | $25 |
| 10-pack: (21889) | $189 |
| Zip drive carry case (31823) | $49 |
| Jaz 2GB External Drive (A4022) | $785 |
| Jaz 2GB disk (61652) | $205 |
| Jaz 2GB 3-pack (57271) | $595 |
| Jaz 1GB disk (24218) | $199 |
| Jaz 1GB 3-pack (32844) | $589 |

## Predator

NEW

**Iomega Predator 24x10x40CD-RW drive**

The all new and exciting Iomega CDRW drive. An external 24x10x40 CDRW with USB 2.0 capability offers you blazing speed performance in terms of write speeds including a BURNPROOF feature to eliminate wasted CDs. The drive has one of the most unique design with its sleek, slim and stylish architecture. Now included, the Iomega Hotburn Software for effortless 2 step CD creation.

FLY BUYS 500 BONUS POINTS

(D9194) **$549** *Rent: $6.01/wk

FLY BUYS 500 BONUS POINTS

**Collect 500 Bonus Fly Buys points when you purchase D0587, C3525, D9194, D4043 or B6404 between 20/02/02 - 30/03/02**

## Iomega CD-RW

FLY BUYS 500 BONUS POINTS

### CD-RW Drive

USB 2.0 capability gives Iomega's new external CD-RW drive amazing 16x10x40x performance with PCs that support the USB 2.0 standard. Also fully backward compatible with USB 1.1, providing near-universal connectivity with Mac and PC computers and 4x4x6x performance. Includes Buffer Under-run protection and NEW Iomega HotBurn CD creation software.

(D4043) **$499**

## Host Powered 250 USB

FLY BUYS 500 BONUS POINTS

NEW – Host-powered Zip® 250MB USB drive Now it's even easier to take your information with you. The Zip® 250 USB drive is now available with a USB cable that provides both data and power, so you don't need any external power source. Its easy to connect (just plug it in) and easy to launch (no rebooting)! This new drive is compatible with most major operating systems and all Zip 100MB and 250MB Zip disks.

(B6404) **$365**



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Fax: 1300 13 6666 Email: sales@ht.com.au

See Page 2 for Locations

# Kodak

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## Share Moments. Share Life™

### Kodak PICTURE CARDS

32MB Picture Card (62677) **$75**

64MB Picture Card (82249) **$99**

96MB Picture Card (88332) **$175**

### Kodak

Good quality camera's need good quality papers

ultra glossy 15 sheets (B1656) **$14**

Satin 15 sheets (D3251) **$14**

Semi gloss 75 sheets (D3258) **$35**

## Kodak DX3900

**The high-performance camera.**

Set your own color mode, ISO, and lighting exposure settings to get your perfect picture. Thanks to 3.1MP resolution, you'll get excellent picture quality on prints up to 11" x 14". The DX3900 comes with 6X zoom (2X optical and 3X digital) and a COMPACTFLASH Card to keep you shooting longer. And with the DX3900's optional telephoto, wide-angle, and close-up lens attachments, you can extend your creativity.

- CCD resolution
- image resolution 3.1 megapixel 2160x1440 pixels
- burst maximum 8 pictures at 0.8MP resolution
- lens 35 mm - 70 mm, (35 mm equiv.)
- auto focus
- zoom 6x (2x optical, 3x digital)

(C7689) **$1,099**

## Kodak DX3700

**Great pictures made easy.**

EasyShare DX3700 Digital Camera.It has 3.1 MP resolution for excellent picture quality up to 11" x 14". Getting closer to the fun is easy with the 3x digital zoom.

- 3.1MP resolution
- 3x digital zoom!
- 8MB internal memory
- Compatible with the Kodak EasyShareCamera Dock

(D0792) **$713**

## Kodak DX3215

**Making digital easy– one picture at a time.**

Great pictures made easy
Want to get into digital with ease? You've found your camera. Introducing the KODAK EasyShare DX3215. This camera gets you started with 1.3MP resolution for great prints up to 5" x 7". A 4X zoom (2X optical and 2X digital) lets you get closer to the fun. It's the perfect camera to get you into digital picture-taking. • 1.3MP resolution • One-touch picture transfer• 8MB internal memory

(C9539) **$458**

## Kodak DC5000

**Rugged, durable,**

and easy-to-use, the KODAK DC5000 will help you get the job done.
The DC5000's weatherproof body will hold up under the toughest circumstances.
The 2X optical (30 – 60 mm) and 3X digital zoom let you choose wide angle or telephoto to take pictures in a variety of open spaces.
A practical, intuitive package that is easy to use but tough on the job

(A3540) **$999**

## Kodak DX3600

**Easy share dock system**

KODAK DX3600 Digital Camera with Kodak easy share dock system. Get crisp, vibrant prints up to 8" x 10" thanks to its 2.2MP resolution and 3X digital zoom. Start shooting right away with 8MB of internal memory. The DX3600 comes equipped with a COMPACTFLASH Card expansion slot so you can boost your camera's memory capacity

Recording time only limited by the size of the compact flash being used.

(C5964) **$779**

## Kodak DX3500

**Simple-to-use**

KODAK DX3500 Digital Camera . Get crisp, vibrant prints thanks to its 2.2MP resolution and 3X digital zoom. The DX3500 comes equipped with a COMPACTFLASH Card expansion slot so you can boost it's memory capacity.

- KODAK Picture Software lets you instantly view,edit, e-mail, and print your pictures.
- Get great-looking prints with 2.2MP resolution and 3X digital zoom.

(C9587) **$549**

## Kodak MC3 portable media device

**All the multimedia you've ever wanted in one little player**

Click into digital video mode to shoot funny movies or snap a few digital pictures. Download your favorite MP3s and take them with you, listening via ear buds or through your boom box or car stereo. It's one of the only MP3 players with a reflective color preview screen, so you can use it even in bright sunlight. Transferring to your PC is a breeze. It even lets you combine your pictures, music and video into unique music videos.

(B9818) **$349**



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# Surround Yourself With The Very Best

## ClickSmart™ 510 NEW

Take megapixel pictures and short videos, then share them over the Internet. Includes built-in flash and microphone, QuickSync feature and much more.

2-year warranty

FLY BUYS 500 BONUS POINTS

(D5771) **$335**

## Logitech® Z340 NEW

The Logitech Z340 produces clear highs and distortion-free lows through a revolutionary 3-piece system design, delivering twice the bass energy of similar systems.
The satellites provide a convenient headphone jack and volume control. An internal power supply eliminates bulky wall adaptors.

2-year warranty*

FLY BUYS 500 BONUS POINTS

(E1070) **$115**

Collect 500 Bonus Fly Buys points when you purchase D5771, E1070, B0805, C6106 or D3991 between 20/02/02 - 30/03/02

## QuickCam® Pro 3000

With its CCD sensor, QuickCam Pro 3000 takes pictures and videos with true 640x480 resolution. Use its built-in microphone to make live video calls over the Internet and send pictures and videos with your emails. QuickCam software lets you easily setup a digital surveillance camera and broadcast live video and audio over the web. Add professional titles, fades and wipes to your videos with the included MGI software. Connection via USB. 2-Year warranty.

FLY BUYS 500 BONUS POINTS

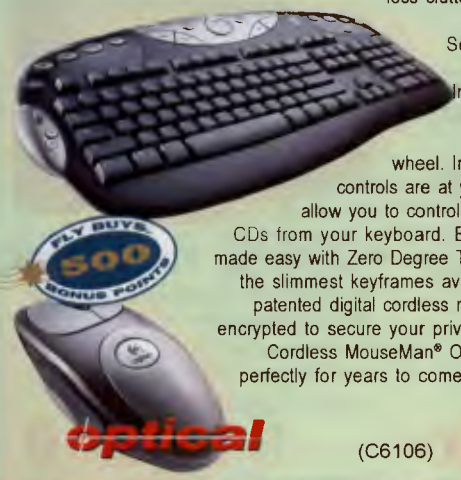
(B0805) **$215**

## MouseMan® Dual Optical

The technologically advanced mouse. Two 800 dpi optical sensors deliver intelligent tracking on a variety of surfaces. No ball means no sticking and no hassle. Five-year warranty

(D4013) **$79**

## Cordless Freedom™ Optical

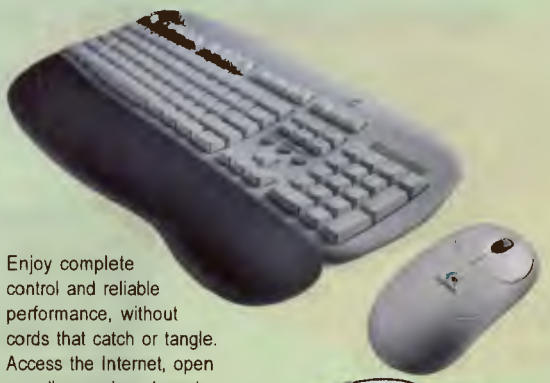



The ultimate cordless keyboard and optical mouse. This striking combination is cordless for less clutter, more style and more freedom. Seamlessly access and navigate the Internet at the touch of a button or the scroll of the iNav wheel. Intuitive multimedia controls are at your fingertips and allow you to control MP3s, DVDs and CDs from your keyboard. Every keystroke is made easy with Zero Degree Tilt, offering one of the slimmest keyframes available. Logitech's patented digital cordless radio technology is encrypted to secure your privacy. The included Cordless MouseMan® Optical will perform perfectly for years to come. 5-year warranty.

FLY BUYS 500 BONUS POINTS

(C6106) **$215**

## Cordless Freedom



Enjoy complete control and reliable performance, without cords that catch or tangle. Access the Internet, open e-mail, search or launch applications with one touch of a key. Includes Logitech Cordless Mouse. 3-year warranty.

FLY BUYS 500 BONUS POINTS

(D3991) **$129**

**Cordless MouseMan Optical** (C1186) **$129**

**MouseMan Traveller** (D4014) **$109**

**Optical Mouse** (B9948) **$49**

**TrackMan Wheel** (C3688) **$99**

**Internet Navigator** (D0560) **$63**

**Deluxe Access 104** (B0819) **$38**

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# NEC

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## Turn on your senses

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## NEC MultiSync LCD1550V

15" LCD Monitor
1024 x 768

NEW

(D9139) **$939**

SUPER SLIM BEZEL!

## NATURAL FLAT CRT MONITOR RANGE

NEC

**V530**
15" CRT Monitor
1280 x 1024
(89125)
**$290**

**V730**
17" CRT Monitor
1280 x 1024
(B7522)
**$390**

**V930**
19" CRT Monitor
1600 x 1200
(C9739)
**$645**

### FE700+
17" CRT Monitor
1280 x 1024 @ 66Hz
Flat Aperture Grille
(D1191)
**$575**

### FE750+
17" CRT Monitor
1600 x 1224 @ 74Hz
Flat Aperture Grille
(D1192)
**$630**

### FE950+
19" CRT Monitor
1792 x 1344 @ 68Hz
Flat Aperture Grille
(D1193)
**$1,087**

### FP1355
22" CRT Monitor
2048 x 1536 @ 75Hz
Flat Aperture Grille
(D1194)
**$1,895**

## NEC HAS A WIDE RANGE OF LCD & CRT MONITORS, DATA PROJECTORS AND PLASMA DISPLAYS

**DON'T FORGET your Fly Buys points!**

### VT45
SVGA; 800 x 600
1000 ANSI Lumens
Horizontal & Vertical Lens Shift
Weighs only 2.5kg
(D1195) **$3,740**

### LCD1850E

18" LCD Monitor
1280 x 1024 Max.
Slim Bezel
Also available in white.
(E1036) **$2,550**

### 42MP3 PlasmaSync*
42" Plasma Multimedia Display
Native Resolution 853 x 480
16:9 Aspect Ratio
160 Degree Viewing Angle
**HDTV COMPATIBLE**
(D9354) **$11,700**
*Speakers and stand not included.



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# High-breed Monitors

## Samsung 151s 15" LCD monitor

**Specifications:**

- 15" viewable screen resolution XGA(1024 x 768)
- Colors 16.2M
- H.Frequency 30 ~ 61 kHz
- V.Frequency 50 ~ 75 Hz
- Contrast 330:1
- Luminance 250cd/m2
- Viewing Angle140°/120°
- Input connectors 15pin D-Sub
- Sync Type Composite H/V, SOG
- Power 30W(Max.)

Optional Pivot to landscape*

(D3614) **$959** Rent* $10.51/wk

*the head of the monitor can actually turn clockwise so you can get a visual landscape picture

## Samsung 151BM 15" Multimedia LCD monitor

**Specifications:**

- 15" Viewable LCD Monitor
- 1024 x 768 max resolution @ 76Hz
- 140°/120° viewing angle.
- Fast and accurate auto adjustment
- NUTEK Certified
- Three colour choices: silver/black/ivory
- Pivot technology
- Built in Multimedia Speakers
- Optional USB-Hub available
- Weight 4.1kg

Optional Pivot to landscape*

(D6237) **$1,098** Rent* $12.03/wk

## SyncMaster 753DF 17" CRT Monitor

**SOHO Series Features:**

Flatter images are easier on the eyes and slimmer products save on space and make users comfortable in their working environment. That's real value. And that's also what makes Samsung the World's Number 1 Monitor manufacturer.

**Specifications:**

- 17"(16" Viewable)
- 0.20mm dot pitch (horizontal)
- 1280 x 1024 @ 66Hz Maximum Resolution
- DynaFlat - Infinitely Flat Tube
- Smart III surface treatment (anti-static & anti-glare)
- On Screen Digital Display
- Plug & Play Compatibility
- MPR-II/NUTEK certified

(C1283) **$499**

Samsung monitors come in 3 colours (ivory, silver and black)

## SyncMaster 955df 19" CRT Monitor

**Graphix Pro Series Features:**

Samsung continues to spearhead the monitor market in meeting customer's needs, built on its reputation as a leading provider of the highest quality monitors utilising the latest technologies to develop products to meet customers demands. Samsung's commitment to customer satisfaction and leadership in the monitor industry has been proven by the value that Samsung monitors provide its customers.

**Specifications:**

- Model No.: 955df 19" (18" Viewable)
- 0.20mm dot pitch (Horizontal)
- 1600 x 1200 @68Hz Maximum Resolution
- DYNA Flat - Infinitely Flat Tube
- Smart III Surface Treatment (Anti-Static & Anti-Glare)
- Onscreen Digital Display
- MPR-II/NUTEK Certified
- Plug & Play Capability

(C3975) **$825** Rent* $9.04/wk

## SyncMaster 171s 17" LCD Monitor

The SyncMaster171S is the ideal display for all business and professional applications. Its new slim design refined with Samsung's digital technology allows the product to fit all working environments. Two different colour vari-ations are available for you to choose: Ivory and Silver that are TCO99 compliant. Optional Pivot stand enables a rotating feature by which you can see one full page of an A4 document without scrolling. The SyncMaster171S is power efficient as well. It consumes less than 1 Watt of power in power off mode, and its built-in power adaptor lets you free from a dangling power brick, leaving your desk clean and simple.

(D9313) **$1,810** Rent* $19.84/wk


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- Extend to a total of 5 Years Return to Base
- Upgrade Return to Base of Warranty Extension to On-Site

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# Life Is Good On Top

## 295LM 22" LCD

- 22" Monitor (Viewable Screen Size 56cm) TFT LCD
- Resolution:1600 x 1200 @75Hz (Analog)
- Brightness: 180cd/m2 (Typical)
- Contrast Ratio: 300/1 (Typical)
- Video Signal Type: Separate, Digital Signal
- Input Connector: 15pin D-Sub, DVI-D, S-VHS,RCA
- Detachable Stereo Speakers
- 3 USB Ports, DDC 2B
- Weight: 18.0Kg (With Speaker)

(D6116) **$7,549**

## 575LE 15" LCD

•15" LCD Flatron Monitor •Res: 1024x768 @75Hz •Brightness: 250 cd/m2 (Typical) •Contrast Ratio: 300:1 •Video Signal Type: RGB analog, Separate H/V •Plug & Play: DDC 2B •OCD Control •TCO-99,TUV-GS,VCCI,Energy Star, GOST CE Compliant •Weight: 5.1kg (Net)

(D3281) **$997**

## 575LM 15" LCD MM

•Multimedia •15.1" (38.35cm) Screen •Pixel Pitch 0.3*0.3mm •Pixel Format: RGB Vertical Stripe Arrangement •Anti-Glare, Hard Coating Surface Treatment •Screen Brightness: 200cd/m2 (Typ) •Contrast Ratio: 200:1 (Typ) •Max Res: 1024*1768@85Hz •Weight: 5.1kg

(E0767) **$1,149**

## 885LE 18" LCD

•18.1" LCD screen •0.28*0.28mm Pixel Pitch •Max Res 1280*1024 @ 75Hz •Brightness 170cd/m (Typ) •Contrast Ratio 200:1 •Viewing Angle 160 Degrees Horizontal, 160

(D3288) **$2,938**

Web Direct

See Web Direct Link (at top of page) for more products and latest info!

## SW700S 17" CRT

•17"CRT •27mm dot pitch •1280 x 1024 @ 60Hz •invar mask •Anti-static, anti-glare, anti-reflection •Dynamic focus

(E1238) **$399**

## SW57M 15" CRT MM

•Intergrated stereo amplifier and speakers •Multi-synchronous support from 640x480 up to 1280x1024 •Flicker-free 1024x768 non-interlaced at 75Hz •MS Windows 95 PnP, VESA compliant.

(42879) **$375**

Not all items are in stock at all stores but can be ordered for Pick-up or Delivery#

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#Delivery charges extra

## DRIVES

**24x10x40 CDRW**
•8MB buffer with under-run technology
(E0768) **$229**

**CDRW/ DVD Combo**
•8x12x32x8DVD •2MB buffer with under-run technology
(E0772) **$329**

**LG 16x DVD**
•with power DVD software
(E0770) **$179**

## 775FT FLATRON

•Triple Flat screen •Viewable Screen Size 16.01" •Pixel Pitch 0.24mm •Flat Tension Mask •Anti Glare •Dynamic Focus •Max Res: 1280x1024 @ 60Hz •Plug & Play: DDC 2B •Weight: 17,8Kg (Net) •Dampening Wire Free

(E0764) **$479**



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Web Direct www.ht.com.au/cat/hp

# hp designjets

## hp designjet 20ps & 10ps

**Affordable and productive**

Pre-press proofing solution

RES: up to 2400x1200dpi
SPEED: A3+ print outs can be generated at a super fast speed of up to 4 mpp
INK: 6-ink modular cartridge systems with four 69ml (cmyk) and two 28ml cartridges that help minimise printer down time and reduce cost per print
RIP: stand alone or server based RIP optimises your system's resources
PAPER: up to A3

| | Rent* /wk | Part # | |
|---|---|---|---|
| **hp designjet 20ps** | $37.22 | (C8932) | **$3,795** |
| Work group solution | A3+ graphics colour thermal injetprinter | | |
| **hp designjet 10ps** | $25.45 | (C8931) | **$2,595** |
| Personal Solution | A3+ graphics colour thermal injetprinter | | |

**Consumables**

Paper & Inks available for the designjet printer range

## hp designjet 800

**Professional graphics printer wide photo quality ads and graphics**

hp 800PS 42"

hp 800PS 24"

RES: 2400x1200dpi
SPEED: Line drawing prints times as short as 60 seconds (D size 24-36Inches )
Colour Image Fast: 7.9m²/hour Normal: 3.34m²/hour Best: 1.95m²/hour
MEDIA: Coated & glossy paper,technical media. Sheet & roll feed, auto cutter
SIZES: Sheet: 211mm - 1897mm ; Roll: 24" (w) x 45.7m (l)
I/FACE: Parallel, USB
SIZE: Printer in 2 sizes 42 or 24 Inches wide

| | Rent* /wk | Part # | |
|---|---|---|---|
| **hp designjet 800 24"** | $83.25 | (B8514) | **$9,750** |
| **hp designjet 800PS 24"** | $114.65 | (B8518) | **$13,995** |
| **hp designjet 800 42"** | $94.17 | (B8513) | **$11,495** |
| **hp designjet 800PS 42"** | $133.12 | (B8519) | **$16,250** |

**Ask About...**

- Extend to a total of 3 Years Return to Base
- Extend to a total of 5 Years Return to Base
- Upgrade Return to Base of Warranty Extension to On-Site

## hp designjet 5000

**Professional graphics printer photo quality unmatched by any other printer**

Come in & see one on display @ our Nth Ryde Location!

hp 5000PS 60"

hp 5000PS 42"

RES: 1200x600dpi on glossy media (6 colours:CMYKcm)
SPEED: max: 46.4 sq m²/hr, (42" dye/uv)
max: 52.9 sq m²/hr, (60-inch dye/uv)
MEDIA: Coated & glossy paper, backlit, opaque, vinyl, canvas...
SIZES: Sheet: 211mm- 914mm (w) x 559- 1600mm (l);
Roll: 24/36/42/54/60" (w), up to 91.4m (l)
I/FACE: Parallel, hp JetDirect 610N 10/100 Base TX Print Server
SIZE: Printer in 2 sizes 42 or 60 Inches wide

| | Rent* /wk | Part # | |
|---|---|---|---|
| **hp designjet 5000 42"** | $159.88 | (B6514) | **$19,795** |
| **hp designjet 5000PS 42"** | $209.15 | (B9792) | **$25,895** |
| **hp designjet 5000 60"** | $255.22 | (B6515) | **$31,599** |
| **hp designjet 5000PS 60"** | $Call | (B9791) | **$38,580** |

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**Delivery Australia-Wide**

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# hp LaserJet printers

## hp LaserJet1000 Series

Designed for personal printing in entrepreneurial business,home business and telecommuters who challenged by multitude of printing needs, the hp Laserjet 1000 printer is a simple, low-cost, reliable laser printer for fundamental printing, delivering professional looking bussiness documents every time. • 10 ppm • hp exclusive instant-on fuser eliminates warm-up time; first page out in 15 seconds • USB port • 48 MHz RISC processor • 7,000 pages per-month duty cycle • 1 MB RAM memory, 32KB RoM memory.

**hp LaserJet 1000 USB** (C9361) **$599**

## hp LaserJet 1200 Series

**hp LaserJet 1200 (base unit)** (B9799) **$785**

**hp LaserJet 1200n-16MB** (B9958) **$1,295**

• 14 ppm A4 (best-in-class) and first page out in less than 10 seconds •increased memory of 8MB of RAM (upgradable to 72 MB) •protected 250-sheet input tray and 10-sheet priority feed tray•10,000 pages monthly duty cycle •instant-on-fuser eliminates warm up time.

**hpLaserJet 1220** (B9968) **$925**

You can now enjoy the comfort of printing, colour scanning and copying from one machine with the copier/scanner attachment for your hp LaserJet 1200. Beside enjoying all the best-in-class printing capabilities of the hp LaserJet 1200, you can now take control of your document management with the added benefit of colour scanning and copying.

## hp LaserJet 4550 Series

**hp colour LaserJet 4550** A4 16PPM 64Mb (B2381)

**$3,825**

**hp colour LaserJet 4550N** A4 16PPM 64Mb 10/100 (B2382)

**$4,425**

## hp LaserJet 2200 Series

• Improved productivity with faster printing at 18 ppm A4 • best printing resolution of true 1200 x 1200dpi at full speed •quicker return to application with 133 MHz processor • first page out in 15 seconds with instant on-fuser • print large and complex documents quickly and easily with 8 MB of standard memory (16 MB memory on hp LaserJet 2200dtn: – expandable up to 48 MB 2200D/DN: memory expansion up to 72MB
• increased duty cycle to 40,000/month.
• LJ2200 model (no duplexer built in for double sided printing)

| | | |
|---|---|---|
| **hp LaserJet 2200d** (base unit) | (B9956) | **$1,537** |
| **hp LaserJet 2200dn** | (B9957) | **$2,045** |
| **hp LaserJet 2200dtn** | (B9898) | **$2,585** |

## hp Injet Printer cp1700 Series

**professional wide-format (A3+)colour printers**

Designed for small businesses and design professionals,A powerful communication tool that produces professional colour business documents, collaterals,premium presentations,proofs and mock-ups.

•Up to 16 ppm black and 14.5 ppm colour print speeds (cp1700 printer) •16 MB built-in RAM •Up to 5,000 pages per month duty cycle •Supports :Windows 95/98/Me;Windows NT 4.0/2000;•Energy Star compliant •Off mode: 6 watts •150-sheet standard input tray •Wide format printer (media sizes 4 x 6 "/A6 to 13 x 19 "/A3+); straight paper path

| | | |
|---|---|---|
| **hp Injet cp 1700** | (E0150) | **$1,175** |
| **hp Injet cp 1700d** | (D6139) | **$1,425** |

## hp LaserJet 3200 Series

Printer, Fax, Copier & Scanner! An ideal business solution for small office, home office (SOHO), small/medium business and top level executives, the hp LaserJet 3200 series is four machines in one. Print, fax copy and scan from one machine and it only occupies 1.6 sq. ft. of your desk space!

| | | |
|---|---|---|
| **hp LaserJet 3200** | (C2332) | **$1,349** |
| **hp LaserJet 3200M** | (C4456) | **$1,529** |

## hp LaserJet 8550 Series

**get ahead with professional in-house printing**

With its advanced features and exceptional performance, your productivity will be dramatically increased. The industry standard for departmental network colour printing, this top-of-the-line printer offers a complete network printing solution that grows with your business. •paper sizes (up to A3) •60,000 page duty cycle and 24 ppm •print on both sides of the page with the optional duplex unit (standard on 8550dn & gn).

| | | |
|---|---|---|
| **hp LaserJet 8550** | (98869) | **$9,468** |
| **hp LaserJet 8550n** | (98870) | **$11,418** |
| **hp LaserJet 8550dn** | (98871) | **$14,377** |
| **hp LaserJet 8550gn** | (98872) | **$16,949** |

**FREE* hp Photosmart c318 digital camera**

*Buy any HP Color LaserJet 8550 before April 30th 2002 and receive free new HP Photosmart c318.

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# hp deskjets & officejets

## hp deskjet 845c

Step up to HP's photo-quality printer that gives you true-to-original brilliant colours

- crisp black text and photo-quality images
- up to 600 x 1200 dpi
- no swapping ink cartridges to print outstanding photo-quality colour
- ideal for work and other creative projects
- prints up to 8 ppm black and 5ppm colour
- USB connectivity

Fly Buys 500 Bonus Points

(D3921) **$169**

## hp officejet V40

HOT NEW PRODUCT

All In One Scanner/Printer/Fax/Copier

- Full-featured printing, faxing, scanning and copying-all in color
- Convenient access to color faxing, copying and scanning from the front panel
- Enhanced printing and copying speeds and richer, sharper color on all four functions
- State-of-the-art performance and speed combined with time-saving features, user-friendly simplicity and a self-sufficient work space at a competitive price
- Reliable and durable -- backed by award-winning HP Customer Care

Fly Buys 500 Bonus Points

(D7688) **$529**

Web Direct

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## hp deskjet 948c

Explore your creativity and print photos easily with hp's premium photo-quality colour printer

- up to 2400 x 1200 dpi
- optional automatic two-sided printing
- space-saving fold-up paper tray
- best photo-quality with HP PhotoREt 3
- parallel and USB connectivity
- prints up to 12 ppm black and 10 ppm colour

Fly Buys 500 Bonus Points

(D3927) **$289**

## hp PSC 750

Printer-scanner-copier

**Ideal for: Busy families that need convenience and quality Savvy users with limited work space**

Students who want to get creative with cards, newsletters and more benefits: Make quick color copies at home from 3x5 inches up to 8.5 x 14 inches. Scan your favorite snapshot to e-mail friends and family Print on photo paper to put in your photo album

(C7655) **$568**

Fly Buys 500 Bonus Points

**Collect 500 Bonus Fly Buys points when you purchase D3921, D7688, or D3927 between 20/02/02 - 30/03/02**

## hp deskjet 990c

**Best Photo-Quality plus Premier Business Printing**

- Infrared printing from PDAs,notebook computers, and other mobile devices. • Up to 17 ppm in black, 13 ppm in color • Optical sensor detects paper type, then selects the ideal print mode
- Automatic Duplex printing capability

(B1967) **$599**

## hp officejet G85

HOT NEW PRODUCT

All Colour: Printer, Copier, Scanner & Fax

Prints at up to 12 ppm black, 10 ppm color using HP photoREt 3 Precision Technology, 2400 x 1200dpi colour, as well as flatbed 36-bit scanning, faster copying speeds, and upgradeable networking capability which allows one unit to be shared by several PCs. Each model combines a color printer, scanner, copier and a walk-up color fax.

(A0062) **$1,169**

Not all items are in stock at all stores but can be ordered for Pick-up or Delivery*

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*Delivery charges extra.



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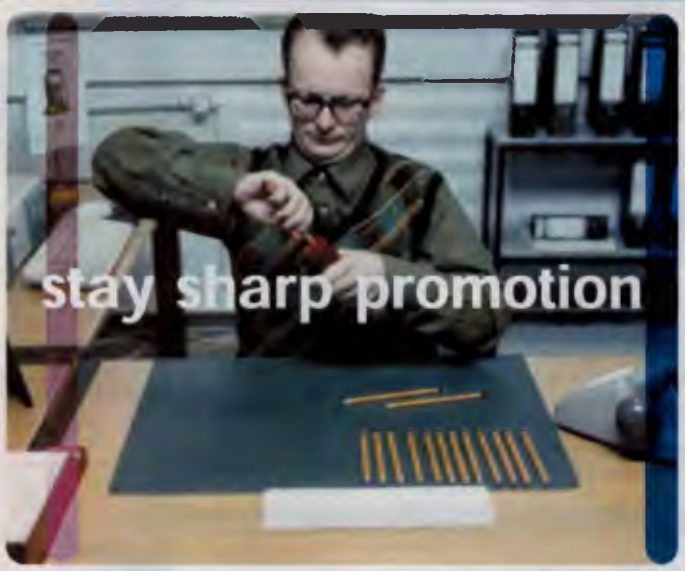
# hp ink cartridge promo & consumables




## Stay sharp and get rewarded

You'll always stay sharp when you use only HP Print Cartridges in your HP Printer. Black HP Print Cartridges always print sharp and clear. And now, when you buy black HP InkJet or LaserJet cartridges you'll also receive your choice of sharp rewards.

### buy 2 black hp inkjet print cartridges claim your choice of $25 Vouchers

For every 2 black HP InkJet Print cartridges* you buy between January 7, 2002 and March 31, 2002 you can claim your choice of $25 vouchers from the following: • BP Petrol • Coles Supermarkets • Woolworths Supermarkets • HMV Music

### buy 2 or more black hp laserjet print cartridges claim $40 to $1000 vouchers or hp products

Every time you purchase 2 or more black HP LaserJet Print cartridges* between January 7, 2002 and March 31, 2002 you can collect the following rewards:
2 hp LaserJet cartridges = $40 BP petrol voucher
5 hp LaserJet cartridges = hp deskjet 845 ($199rrp)
20 hp LaserJet cartridges = $400 Myer Grace Bros. voucher OR hp printer-scanner-copier 750 ($649rrp)
50 hp LaserJet cartridges = $1,000 Myer Grace Bros. voucher OR hp digital camera C715 ($1,299rrp) OR hp laserjet 2200 ($1,499rrp)

### buy black hp injet or laserjet printer cartridges and claim big rewards

(Additional claim forms can be downloaded from **hp.com.au/promotion/staysharp**)

For full terms and conditions please visit **hp.com.au/promotion/staysharp or call 1800 00 47 00.**

Web Direct

See Web Direct Link (at top of page) for all your HP ink & paper needs!

## ink cartridges

**No 29 Black** injet Cartridge (21919) **$69**

**No 45 Black** Inkjet Cartridge (22643) **$69**

**No 78 Tri-Colour** Inkjet print Cartridge (86183) **$79**

**No 49 Tri Colour** Inkjet print Cartridge (22331) **$69**

**No 23 Tri Colour** Inkjet print Cartridge (78344) **$79**

**No 78 Tri Colour** Inkjet Cartridge (97335) **$149**

## toner

**hp C4127x** LaserJet 4000 Series 10,000 Page Toner (54731) **$260**

**hp C4096a** LaserJet 2100/2200 Series 5,000 Page Toner (73192) **$210**

**hp 92298a** LaserJet Print Cartridge for LJ 4/M,4+/M+,5/N/M 6800 page Toner (07995) **$189**

**hp 92298x** LaserJet Print Cartridge for LJ 4/M/+/M+/5/5M/5N 8800 Page Toner (42504) **$209**

**hp C3909a** LaserJet Print Cartridge for 5Si/Mopier/8000 15000 Page Toner (26450) **$359**

**hp C4092a** LaserJet print Cartridge for HP LaserJet 1100, 3200 (70459) **$130**

## paper

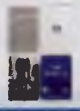
**hp C7014a** Colour fast photo paper - Glossy 20 Sheets (C6528) **$58**

**hp C7006a** Every Day photo paper- Semi Gloss 25 Sheets (C6840) **$15**

**hp C6765a** Photo Paper - Glossy (81524) **$18**

**hp C6065a** Iron On T-shirt Transfers A4 10 Sheets (52818) **$26**

**hp Q1936a** Premium Injet A4 paper 200 Sheets (D9329) **$39**


**hp Q1937a** premium Injet paper - A3 100 sheets (46765) **$55**



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# hp scanjets & pocket pc

## hp scanjet 4470c

High-quality scanner for the home with excellent features.

- MS Win 95/98/2000/Me/NT4.0
- Includes USB cable, power cord and active transparency adaptor.
- res: 1200dpi optical, 1200 x 2400dpi hardware
- bit depth: 48-bit colour
- dimensions: (WxDxH) 305mm x 505mm x 72mm. 2.9kg
- 1 year hardware warranty & telephone support

(C8119) **$349**

## hp scanjet 5400c

High-performance 2400dpi scanner for professional use.

- MS Windows 95/98/2000/Me/NT4.0
- Includes USB & parallel cable and power cord.
- res: 2400dpi optical, 2400 x 2400dpi hardware, unlimited dpi enhanced.
- modes: Front panel scan, copy, e-mail, photo reprint or share-to-web Buttons from software.
- i/face: Dual - Parallel & USB.
- image technology: Charge coupled device (CCD)
- bit depth: 48-bit colour
- Warranty: 1yr hardware warranty & telephone support

(C7201) **$415**

## hp scanjet 7400c

market-leading image quality with uncompromising speed.

ScanJet 7400c Series office ready features make it easy to create impressive communications projects and manage business crtical documents while saving time and resources.

- up to 2400 dpi
- true 48-bit color you'll get professional results in seconds.
- Windows® 98, 2000, Me, NT® 4 and Universal Serial Bus (USB).

(B9949) **$979**

**Ask About...**

- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site

## hp jornada 548

**hp pocket PC in a sleek and stylish metal casing**

- hp jornada 548 Pocket PC
- DISPLAY : 240 x 320 pixels LCD display, Rich colour CSTN backlit
- I/O : 1 x IrDA infrared, 1 x RS232 serial & 1 x USB ports, CompactFlash Type I card slot, AC input jack, stereo earphone jack
- S/W: Microsoft Windows for Pocket • Pen and touch interface (stylus included)
- Built-in Lithium-Ion rechargeable battery with 8 hours of battery life

hp jornada 548
32 MB Ram

(A0705) **$749**

F1825A

Rent* $8.21/wk

## hp jornada 565

**one of the lightest pocket PC's on the market**

- hp jornada 565 Pocket PC
- 206 MHz 32bit Intel(R) SA-1110
- 3.5 inch 16 bit colour TFT LCD with 65K Colours pen-and-touch
- handwriting recognition software
- 14 Hour Continuous use removable Lithium - Polymer battery, and coin Battery back up.
- serial port, AC input jack, stereo head phone jackaudio speaker and microphone, voice recorder

hp jornada 565
32 MB flash ROM

(D0845) **$1,159**

Rent* $12.70/wk

F1865A

**RENTSMART**

The figures quoted are based on a per week basis over 3 years. T.A.P, Terms & Conditions apply.

## hp CD Writer 4ce

**light weight laptop companion**

technical specifications

• USB 1.1 • write 4x,rewrite 4x, read 6x • system requirements Pentium II 300 Mhz or equivalent processor • 32 MB RAM (64 MB RAM for Windows 2000 Professional) • 50 MB free hard disk space • Windows 98,2000 professional and me.

small, sleek and stylish

hp CD Writer 4ce

(D4011) **$375**

**Wine on-line?**

Vintage Cellars

vintagecellars.com.au

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See Page 2 for Locations

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## Hot 2002 Releases

I can...

## SCANNERS... SCANNERS... SCANNERS...

You can... Canon

### D646U Flatbed Scanner

NEW

- **Fabulous Entry Level Scanner**
- 600 x 1200 Optical DPI
- Z-Lid For Easy Book Scanning
- Modern Software Suite
- Archsoft Photo Studio 2000 + OCR Software

(E1151) **$179**

### N670U Flatbed Scanner

- **One touch scan controls**
- USB Interface
- 600 x 1200 dpi
- Scan, click and burn photos onto CD's.
- Advanced Z-Lid cover simplifies scanning of bulky items, books and magazines
- 600 x 1200dpi

(D1005) **$189**

### N1250U2 Flatbed Scanner

NEW

- **High Speed At the Right Price**
- 1200 x 2400 DPI Optical Resolution
- USB 2.0 For Faster Scanning
- Easy One Touch Control
- Photo Studio 2000 Omnipage Pro 9.5 OCR Software

(E1246) **$249**

### N1250U2F Flatbed Scanner

NEW

- 35mm Film Scanning

(E1230) **$399**

### CanoScan D2400UF Flatbed Scanner

- **Optical resolution of 2400 x 4800 dpi.**
- Film adaptor lid - for accurate scanning of 35mm, 2¼" and 4"x5" film.
- Outstanding colour accuracy.
- Ideal for professional studios, graphics and design bureaus.

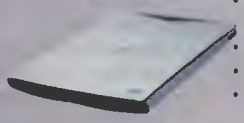
(B9840) **$759**

### N640Pex Flatbed Scanner

- **Optical resolution of 600 x 1200dpi**
- 42-bit input
- Only 4 cm tall
- Parallel interface
- Scans up to A4 size (Quite operation)
- Complete software package, LIDE Technology

(D4026) **$139**

### N1240U Flatbed Scanner



- **Amazing 1200 x 2400dpi optical with selectable resolution up to 9600dpi.**
- Stylish charcoal and aluminium finish.
- New Z-lid for scanning thick books etc.
- Software included OmniPage and PhotoShop Elements
- 1200 x 2400dpi

(C7589) **$279**

### D660U Flatbed Scanner

- **600 x 1200dpi optical resolution for documents**
- 1200 x 1200dpi optical resolution for slides and film
- Built-in 35mm slide and film scanning
- 42 bit input colour depth

(A8903) **$265**

### FS4000US Slide & Film Scanner

- **Outstanding resolution in a compact desktop unit**
- 4,000 dpi Optical Resolution for crisp clear images
- 42-bit scanning depth provides superior colour accuracy and extremely detailed reproduction
- Supports 35mm slides, film strips and APS. (Advanced Photo System).

(E1231) **$1,449**

Fast Delivery Australia-Wide

Web Direct

See Web Direct Link (at top of page) for more products and latest info!

## CAMERAS... CAMERAS... CAMERAS...

Canon

### A10

NEW

PowerShot A10 DIGITAL CAMERA

(C3968) **$679**

### IXUS

NEW

PowerShot DIGITAL IXUS

(C5389) **1,039**

### IXUS 300

PowerShot DIGITAL IXUS 300

(C5653) **$1,198**

### S30

(D5915) **$1,475**

### G2

(D0782) **$1,998**

### Pro 90

HOT NEW PRICE

(B9936) **$1,899 RRP**

- Ultra-stylish and compact all-metal capsule style design • 3.2 megapixel CCD image sensor • Fast Canon 3x aspherical zoom lens – equivalent to 35-105mm f/2.8-4.9 in 35mm format Complete range of creative exposure control modes

•High resolution 4 Megapixel CCD image sensor •Fast Canon 3x aspherical zoom lens equivalent to 34 – 102mm f/2-2.5 •Advanced 3-point autofocus and light metering – automatic or manual point selection •Complete range of creative exposure control modes

•Fast Canon 10X aspherical zoom lens – equivalent to 37 - 370mm f/2.8-4.0 •Optical Image Stabilizer (OIS) – removes camera shake without loss of quality •EOS SLR design layout with LCD viewfinder •Great range of standard accessories and software



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## Too Hot To Handle

I can...

You can... Canon

## PRINTERS... PRINTERS... PRINTERS...

### BJC-1000SP Bubble Jet Printer

- **Outstanding operating economy.**
- Vivid colours, even on plain paper.
- Exceptional photographic quality.
- Automatic image improvement.
- Banner printing and outstanding versatility
- 720 x0360dpi

(A1792) **$85**

### S200 Bubble Jet Printer

- **Vivid Photo Function**
- 2880 x 720 dpi
- Up to 5ppm
- Dual Ink Tanks

(E1132) **$189RRP**

### S400SP Bubble Jet Printer

- **Super-high resolution, up to 1440 x 720**
- Brilliant colour inks.
- Operating economy.
- Extraordinary photo printing.
- Optional colour scanner cartridge IS-32
- 1440 x 720dpi

(D1745) **$226**

### S750 Bubble Jet Printer

- **First Bubble Jet With 20ppm**
- 1200 x 2400DPI
- Up to 20ppm
- Four Individual Ink Tanks

(E1134) **$549RRP**

### S900 Bubble Jet Printer

- **Prints A4 Photo's in approx 1min**
- 2400 x 1200 Optical DPI
- Six Individual Photo Ink Tanks

(E1135) **$899RRP**

### S9000 Bubble Jet Printer

- A3+ Printing on S9000

(E1248) **$1,199**

### BJC-2100SP Bubble Jet Printer

- **New Super Economy mode cuts operating costs by up to 75%.**
- High speed printing, up to 5 ppm black text and up to 2 ppm colour.
- Optional colour scanner cartridge 15-22
- Now with parallel port
- 720 x 360dpi

(A3173) **$129**

### S300 Colour Bubble Jet Printer

- **Up to 11 black and white** and 7.5 Colour pages per minute
- **Up to 2400 x 1200dpi print resolution**
- Separate black and tri-colour ink tanks
- USB Interface for Windows and Mac
- Compact footprint - ideal for the home office
- **Colour lasts up to 25 years using Canon's Photo Paper Pro**

(D4023) **$259**

### S520 Bubble Jet Printer

- **14ppm at an unbelievable price**
- 2400 x 1200 DPI
- Up to 14ppm
- Four Individual Ink Tanks

(E1136) **$449RRP**

### S820 Bubble Jet Printer

- 1200 x 2400DPI
- A4 Photo's in approx 2min
- Six Individual Photo Ink Tanks

(E1139) **$649RRP**

### S820D Bubble Jet Printer

- Prints Photo's without a PC (S820D only)

(E1247) **$899RRP**

### S6300 Bubble Jet Printer

- **The Fastest A3+ Bubblejet ever**
- 2400 x 1200 Optical DPI
- Up to 17ppm
- 4 Individual Ink Tanks

(E1140) **$899RRP**

### LBP810

(C3917) **$498**

•High resolution 600 dpi printing for crisp text and graphics •8 ppm engine speed •Wide media compatibility, print transparencies, envelopes, postcards etc •Outstanding line definition - equivalent to 2400dpi horizontally •Parallel & USB connections

### LBP1000

(95983) **$985**

•10 pages per minute print engine at 1200 dpi resolution •Energy saving 'On-Demand' toner fusing •Cost-saving 'economy' printing mode •Powerful processor to ensure maximum throughput

### 1760e

(B1751) **$1,259RRP**

• 17 page per minute print speed •Energy saving 'On-Demand' toner fusing •Powerfull RISC processor •PCL6 Print Language emulation

### LBP2000

(E1235) **$Call**

•Affordable A3 Laser Printing •1200 x 600 Optical dpi •Up to 20ppm •PCL6 With Complete Network Options

### Ask About...

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- ☐ Upgrade Return to Base of Warranty Extension to On-Site

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## The Power to Create

PRINTER

### EPSON STYLUS C20UX

BONUS USB CABLE (in box) while stocks last!

The Easy-To-Use Home Colour Printer that gives photo quality printing, and delivers best-in-class for overall cost effectiveness. **KEY FEATURES** •Up to 720 x 720 dpi photo quality printing •Fast, easy set-up and operation •USB equipped for simple plug and play printing •Up to 6.5 ppm black text printing

(C5572) **$119**

PRINTER

### EPSON STYLUS C40SX/C40UX

The Easy to use Quality Home Colour Printer with up to 1440 dpi. **KEY FEATURES** • Up to 1440 x 720 dpi photo Quality printing. • Fast, easy set-up and operation of both models. • Choice of USB or Parallel models, simple plug and play printing. • 8ppm black text speed and 3.9 ppm colour text speed.

C40SX (Parallel) (C5574) **$169**

C40UX (USB) (C5573) **$169**

LASER PRINTER

### EPSON AL-C2000

EPSON technologies, including AcuLaser Multiple-screen Printing, Colour RIT and Colour Stabilizing. In addition, AcuLaser Colour Halftoning provides print resolution equivalent to 2,400 dpi (defined print resolution: 600dpi). Text is extremely sharp and photos have excellent contrast.

(A7365) **$4,279**

PRINTER

### EPSON STYLUS PHOTO810

•On-demand Inkjet (piezoelectric) •48 x 6 nozzles •Black text (memo) A4 Approx. 12ppm (Economy) • full page colour A4 Approx. 1.4ppm (Normal)* •USB compatible •Colour: Cyan, Magenta, Yellow, Light Cyan, Light Magenta •DRIVERS Microsoft® Windows® 95/98/2000/Me/NT® 4.0.

(E0536) **$369**

PRINTER

### EPSON STYLUS C60

•2880 x 720 dpi resolution •Fast 12ppm* for both Black and Colour Text Memo (*at economy mode) •Precise-Super fine detailed printing with up to 2880 dpi, MicroPiezo Print Head and 4pl Variable Sized Droplet Technology •Four-colour ink system.

(D0042) **$269**

PRINTER

### EPSON STYLUS C80

• Up to 20 ppm* for black text • Constant monitoring of ink consumption with the Intellidge™ ink system in each of the four ink cartridges • Pigment inks for prints that are fade-, water- and smudge-resistant • Super fine printing with up to 2880 dpi.

(D1665) **$589**

PRINTER

affordable 6-colour printer

### EPSON STYLUS PHOTO895

Outstanding Photographic 6-Colour Quality with Personal Digital Photo Lab Function. • Up to 2880 x 720 dpi photo • Quality printing resolution • PRINT Image Matching™ enabled • USB interface for plug-and-play • Over 20 years lightfastness***

(C9632) **$719**

PRINTER

### EPSON STYLUS COLOR1290

•A3+ •6 Colour photo printing •True Border-free Edge to Edge printing •High Speed 4pl Ultra MicroDot printing at 2880 dpi •Over 20 years lightfast prints •Features Print Image Matching technology

(C2150) **$1,064**

SCANNER

### EPSON PERFECTION 1250

This new EPSON scanner features resolution and scanning technologies which sets it apart from other scanners in its price class. •1200 x 2400 dpi optical resolution •48-bit colour depth (internal) •USB interface for plug-and play

(C9439) **$219**

SCANNER

### EPSON PERFECTION 1650

Perfection 1650 series offers full auto scanning mode for documents and photos, and the Perfection 1650 Photo, in addition, feature auto batch scanning mode for film and slides. using its film adapter. Scanning •1600 x 3200 dpi optical resolution •USB interface for plug-and-play

(C9387) **$358**

SCANNER

### EPSON EXPRESSION 1640XL

The Expression 1640XL A3+ scanner features EPSON's most advanced scanning technologies providing high speed, maximum detail and superior sharpness and clarity.

(B1330) **$5,639**

MONO LASER PRINTER

### EPSON EPL 5900

NEW

•12ppm •True 1200dpi Resolution •200MHz RISC Processor •USB & IEEE1284 Parallel Interface •10/100 Base T/TX Network Print Server •8MB Memory – Expandable up to 136MB •Standard 250 Sheet Multi Purpose Tray & Optional 500-Sheet Lower Paper Cassette Unit

(D8158) **$719**

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# Video Editing Hardware

## Studio Deluxe

(E1100)

**$849**

Pinnacle Studio Deluxe delivers everything you need to make fantastic Digital movies on your PC, all in one easy to use package. Pinnacle Studio Deluxe includes full versions of Pinnacle Studio version 7, Pinnacle Express and Pinnacle Hollywood FX for Studio. In addition, Pinnacle Studio Deluxe includes the new Pinnacle AVDV Analog and Digital video capture card for super high quality capture from just about any source. From Analog or Digital video capture and editing all the way through to burning a disc to play on your set top DVD player. Pinnacle Studio Deluxe makes it easy to make great movies at home.

## MP20

New

(E1101)

**$649**

Going ahead in the world of multimedia, Pinnacle is proud to launch its new innovation MP20. The MP20 provides you everything you need to back up any video onto a DVD-R or RW so it can be watched later onto a DVD player. Did you know that after 8 years your VHS tapes will be unwatchable? Back up your VHS or Camcorder tapes and DVDs onto CD or DVD now before its too late! - Capture videos from Composite and S-Video sources - Create MPEG1 or MPEG2 files for VCD, SVCD or DVD authoring - Author like a pro DVDs with interactive menus with the Pinnacle Impression DVD SE.

HARRIS TECHNOLOGY Technology Centre at Kmart Broadway-Sydney

Technology Centre Shoppers: Not all products are in-store, but consulting & advice available on all items.

## DV500 PLUS

Price Drop

(B9962)

**$1,599**

As successor to the award winning DV500 solution, the DV500 PLUS boasts best of class real-time performance. With a superior render free, real-time feature set, DV500 PLUS saves you time where it matters most. DV500 PLUS is the ONLY real-time editing solution which takes full advantage of all Adobe Premiere 6.0 capabilities with professional quality features. DV500 PLUS combines analogue and digital video sources with a professional set of real-time features where they matter most- Real-time where it counts! Supports all Windows XP/ 2000/ NT/ Me/ 98SE/ 98 operating systems.

## DV200

Price Drop

(77104)

**$799**

Pinnacle Systems DV200 Firewire© digital video editing card is the industry's most affordable fully featured IEEE-1394 editing solution. DV200 features Pinnacle Systems' DVTools pre-production software for automatic tape scanning, batch capturing, and complete DV device control. Includes Adobe Premiere 6.0, Hollywood FX Copper and Alpha Magic, Smart Sound Quicktracks, Pinnacle TitleDeko and DV Tools, Adobe Photoshop LE, Pinnacle Systems INSTANT Video play back plug-in, and Total Training Introduction to Premiere

Ask About...

- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site

## STUDIO DV PLUS

(A8908)

**$449**

Studio DVplus is the perfect companion to your DV or Digital8 camcorder. You can transfer digital video directly from your camcorder to your PC hard drive. With the easy-to-learn Studio software, you'll be able to create professional-style movies from your DV or Digital8 camcorder tapes. The FireWire (IEEE 1394) and S-VHS outputs will let you export your final work on any kind of tape so anybody equipped with a regular VCR can play your tapes.

## STUDIO 7

(C7541)

**$245**

Take Hollywood Home! Pinnacle Studio video-editing software and your creativity are all you need to turn your home movies into masterpieces. Pinnacle Studio combines a simple, drag and drop interface with professional features like fast/ slow motion, custom audio, over 100 transitions including Hollywood FX 3D effects, advanced color correction, contrast and brightness control, and more!

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MINOLTA QMS

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# The future in Imaging

Ask About...

- Extend to a total of 3 Years Return to Base
- Extend to a total of 5 Years Return to Base
- Upgrade Return to Base of Warranty Extension to On-Site

## magicolor 2200 DeskLaser

**The first colour laser printer at a monochrome price**

Affordable A4 colour for Windows workgroups. The low purchase price and operating cost of the magicolor 2200 DeskLaser make it affordable for any business requiring colour and black & white printing.

(C0669) **$2,969** *Rent: $29.11/wk

| | |
|---|---|
| **Print Speed** | 5 ppm colour, 20 ppm mono |
| **Resolution** | 1200 x 600 dpi |
| **Interface** | NETWORK READY, 10BaseT/100 Base TX Ethernet, Bi-directional IEEE Parallel |
| **Compatibility** | Windows 95/98/2000/Me, NT 4.0 |

## PagePro 1100L

**Fast and inexpensive desktop laser printer**

The award winning PagePro 1100L – A4 monochrome laser is the right business solution. It's fast at 10 pages per minute, and offers a high quality 600 dpi. It's also an inexpensive personal printer.

(A1438) **$589** *Rent: $6.45/wk

| | |
|---|---|
| **Print Speed** | 10 ppm A4 mono |
| **Resolution** | 1200 x 600 dpi |
| **Interface** | Parallel |
| **Compatibility** | Windows 3.1x95/98/2000/Me, NT 4.0 |

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## magicolor 6100 DeskLaser

Prints up to 24 pages per minute in monochrome and up to 6 in colour. It's competitively priced to replace those black and white only printers. When it comes to flexibility, the DeskLaser is as versatile as they get. This colour laser printer supports A4, A3 and up to 13" x 19" and even has automatic duplexing capabilities.

(B1375) **$5,499** *Rent: $50.12/wk

| | |
|---|---|
| **Print Speed** | 6 ppm colour, 24 ppm mono A4<br>3 ppm colour, 12 ppm mono A3 |
| **Resolution** | 1200 x 600 dpi resolution |
| **Interface** | NETWORK READY, 10BaseT/100 Base TX Ethernet, Parallel |
| **Compatibility** | Windows 95/98/2000/Me, N.T 4.0 |

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The figures quoted are based on a per week basis over 3 years. T.A.P, Terms & Conditions apply.

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## NEW PRODUCT magicolor 3100

**16ppm A4 tandem colour laser printer**

Finally there's a desktop colour laser printer for business that prints just as fast in colour as it does in black and white. The magicolor® 3100 delivers up to 16 pages per minute to get the job done. It also has automatic duplexing for two-sided printing.

(D9169) **$8,678** *Rent: $75.29/wk

| | |
|---|---|
| **Print Speed** | 16 ppm colour & mono |
| **Resolution** | 1200 x 1200 dpi |
| **Interface** | NETWORK READY, 10BaseT/100 Base TX Ethernet, Parallel |
| **Compatibility** | PostScript 3, PCL6, PDF, HP-GL |



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Convert your S-Video and Composite analog source to DV and back. The ADVC-100 supports locked audio, works with NTSC and PAL video and is compatible with both Windows and MAC OS.

(D4514) $699

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(D6096) $1,949

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(C9352) $2,399

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(C6461) $1,499

With Adobe Premiere 6.0

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- Transitions

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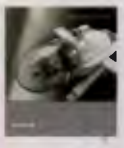
AutoCAD 2002 (C7859)

Autodesk Architectural Desktop 3.3 (C9723)

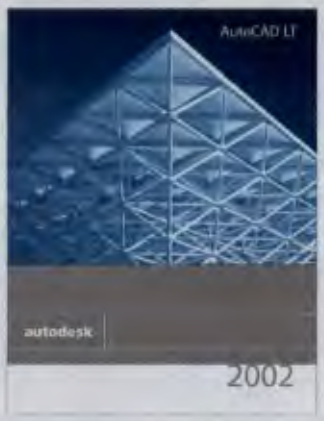
Autodesk Viz 4 (E1066)


Autodesk Inventor 5 (D5167)

Autodesk Mechanical Desktop 6 (C7928)

Autodesk Land Desktop 3 (C9623)

## AutoCAD LT 2002




(C4281) **$1,780**

(C4282) UPGRADE **$466**

AutoCAD LT® 2002 is the only 2D CAD program providing 100 percent DWG compatibility with AutoCAD® 2002 based products. That means you can open, edit, and exchange drawing files (DWG) with complete confidence. A comprehensive Internet toolset streamlines collaboration between design team members, shortening cycle times and reducing costs. Plus new enhancements like automated associative dimensioning help you create quality designs more efficiently. AutoCAD LT® 2002. Connected. Collaborative. And powerfully 2D.

## AutoCAD 2002

(C7856) **$7,199**

With AutoCAD® 2002, you can get your design information where it's needed— quickly, easily, and accurately. Its design collaboration tools help you maximize the value of your design data by sharing files, accessing design resources, and meeting in real time with the entire project team. With powerful features such as CAD standard management tools, associative dimensioning, new Object snaps, 3D Orbit and more, AutoCAD® 2002 will help you create quality designs more efficiently giving you that strategic competitive advantage.

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### Autodesk VIZ 4

Bring your designs alive with Autodesk Viz 4, a multimedia software tool that provides a visually rich, 3D, interactive user interface. Autodesk VIZ 4 is easy to use & is interoperable with AutoCAD® applications. Upgrades also available. Price on application.

(E1065) **$3,799**

### Volo View 2

Volo™ View 2 software is a cost-effective, easy-to-use digital design viewing solution that lets everyone on your team electronically review, mark up, measure, and plot AutoCAD® and Autodesk Inventor™ based drawings. Upgrades also available.

(D1736) **$385**

### AutoSketch 8

From concept sketches, information graphics, and floor layouts to presentations, electrical drawings, and home project plans, you can draw it - quickly and accurately - with AutoSketch® Release 8 software.

(D9136) **$245**

### QuickCAD 8

Begin designing on a computer right away with QuickCAD™ Released 8. Plenty of productive features let you make technical designs and diagrams, and you can start drawing the very first time you use it.

(D5996) **$98**

### Symbols 2000 Architectural

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**Other Powerful Features**
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(B4376) **$665**

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procreate **KnockOut 2.0**

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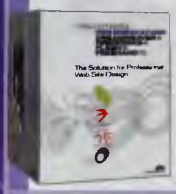

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> **You can download a live trial of *e*Trust Inoculate/*T* from the CA website at** http://www3.ca.com/Solutions/Collateral.asp?ID=1038&PID=128

> **Need more than 5 users? CA also has licensing options for 10+ user environments. Contact Harris Technology for further information on 1300 13 9999.**



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# Better Things to do than Guard your Network all Day?

Web Direct
See Web Direct Link (at top of page) for more products and latest info!

## Mailessentials

Email Content Checking & Anti-virus for Exchange

Mail essentials is the market leading email content security software. It acts as an Email Firewall and protects you from headline-hitting viruses such as Sircam, as well as email attacks targeted at your organisation. In addition, Mail essentials adds important key features to your mail server, such as Anti-Spam, Email encryption, Email archiving, Disclaimers, Personalised auto responders, POP3 downloading and more. Native Exchange 2000 version is now available which also scans internal mail!

from: 10 users

(C4380) **$677**

## LANguard

Content Filtering and Anti-virus for ISA Server

LANguard for ISA Server helps you protect against the huge security risk posed by HTTP and FTP access from the workplace. Built on top of Microsoft ISA server, it scans all inbound material for viruses, Trojans or objectionable material. Using LANguard's powerful rules engine, you can configure rule sets that allow you to quarantine dangerous files for administrator approval.
LANguard also enables you to set up rules that can prevent unproductive use of the Internet at the workplace.

from: 25 users

(C4366) **$839**

## LANguard

Intrusion Detection through Security Event Log Monitoring

LANguard Security Event Log Monitor (S.E.L.M.) is a revolutionary new intrusion detection product that alerts you to any unauthorised activity occurring on your network by monitoring the security event logs of all your Windows NT/2000 servers and workstations. A firewall will offer no protection against attacks originating from within the company.
LANguard SELM alerts you to possible intrusions/attacks in real time.

from: 5 User Workstations

(C9889) **$265**

Interact commerce corporation

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# The Best Selling Contact Manager

NEW!! ACT! 6 Pack- Buy 5 get 1 FREE

Get your hands on this 6 pack and shout the office with ACT!- How can you resist when you can now buy a 5 user license and get 1 FREE!

ACT! 6 pack (D4237) **$1,099**

ACT! single upgrade (A6366) **$135**

**$70 CASH BACK!***

## ACT! on this deal

ACT! will help you keep track of all your important business relationships. It gives you instant access to contact information, keeps a complete history of your communications and helps you manage your diary efficiently – all from your laptop, PC or Palm Pilot®.

- Share your ACT!® calendar information with Microsoft Outlook.
- Sell more with the easiest, best-selling contact manager.
- Make your customers feel like they are the only one.
- Keep important details from slipping through the cracks.
- Reach contacts no matter where you are.
- Predefine a series of activities and automatically schedule the steps with your contacts.
- Make Contact. Build Relationships. Get Results.

(A4573) **$225**

** $70 Cashback offer by redemption from Interact- see website www.act.com/70rebate for redemption form: This offer is valid only for standalone, full version purchases of ACT! 2000 made between January 1 and March 31, 2002. Offer not available with site licenses,NFRs, OEM, 6-packs, resellers, or academic offers. Limit one rebate per name, address , household, or company.*

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crystal decisions

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# Powerful Information Delivery for the Web

## crystal reports.

Crystal Reports is the world standard for high performance reporting. Crystal Reports is a robust report designer that allows you to pull information out of virtually any data source (including XML, OLAP & relational), in the form of a report or query, via the web or windows.

### Flexible Developer Tools

Flexible developer tools for Web and Windows developers, with comprehensive support for development languages, makes Crystal Reports the essential reporting tool for database applications. Build and freely distribute client-side applications that incorporate rich interactive reports, or create scalable client/server applications starting with the included 5 concurrent users license included free.

#### Web Publishing System

Rapidly deploy your reporting solution to the web with our powerful new web publishing system for easy information sharing. As a special offer to retail customers, Crystal Reports Developer and Professional editions include 5 concurrent users of Crystal Enterprise Standard free. It is the fastest way to get your high-quality interactive Crystal Reports out to users across the enterprise.

The 5 concurrent users of Crystal Enterprise Standard received free is not accumulative. You may not increase the number of promotional CALs by purchasing further copies of Crystal Reports 8.5.

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**SPECIAL OFFERS!!**

A. *Upgrade Advantage Maintenance promotion - All customers who purchase Crystal Reports 8.5 Professional or Developer editions *with upgrade advantage maintenance* will receive this free picnic backpack.

**BONUS FREE PICNIC BACKPACK***

| | | | | | |
|---|---|---|---|---|---|
| Crystal Reports Dev 8.5-Single User with maintenance | (C3157)* | **$1,190** | Crystal Reports Pro 8.5- Single User with maintenance | (D3524)* | **$972** |
| Crystal Reports Dev 8.5 Single User Upgrade with maintenance | (E1241)* | **$735** | Crystal Reports Pro 8.5 Single User Upgrade with maintenance | (B8681)* | **$599** |

Now you can collect Fly Buys points when you purchase from HARRIS TECHNOLOGY.

B. **Developer promotion** - Purchase Crystal Reports 8.5 Developer edition.

1. **new COM driver** - This add-on allows you to write custom data access drivers using any development language that can create standard DLLs. Encapsulate business logic, perform complex calculations or simply abstract your data, then use the power of Crystal Reports for formatting, presentation and delivery.
2. **new XML data access driver** - This update to the SMX data access driver improves support for XML sources, including accessing multiple XML data sources in a single report.
3. **new VCL** - supports Delphi 6
4. **new Excel export** - now what you see in Crystal Reports is what you will see when exporting to excel with its improved images and colouring. It also supports a data-only export.

| | | | | | |
|---|---|---|---|---|---|
| Crystal Reports Dev 8.5 | (B8685) | **$915** | Crystal Reports Dev 8.5 5 User | (B8686) | **$3,625** |
| Crystal Reports Dev 8.5 Upg | (B8687) | **$475** | Crystal Reports Dev 8.5 Upg 5 User | (C3572) | **$2,035** |

*To redeem special offers you must register your product at http://www.crystaldecisions.com/register/content.asp?rdrcnt=1

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## Powerful analysis for the Web

crystal analysis. professional

Crystal Analysis Professional provides easy-to-use interactive high speed analysis for Microsoft SQL Server (OLAP) Services. It makes multi-dimensional data easy to understand, use and deploy - opening the power of interactive analysis to all.

The result delivers better value to organisations, as more people will now be able to access information from multi-dimensional OLAP data, and gain better insights to help decision-makers impact business performance.

(C7805) **$719**

Other software Full Version/Upgrade products available. Please call for pricing and information



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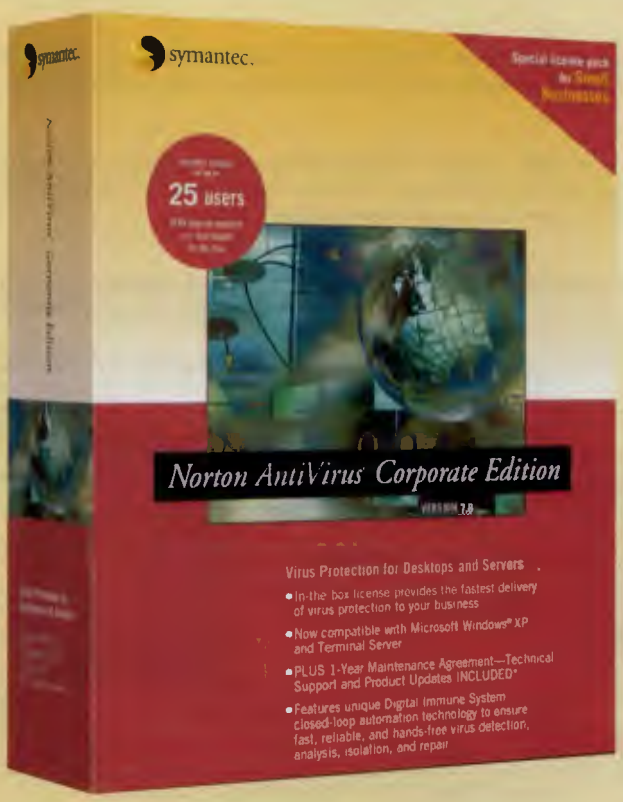


5 User Pack
(E0704) **$655**

10 User Pack
(E0705) **$1,199**

25 User Pack
(E0707) **$2,599**

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## Norton AntiVirus™ Corporate Edition 7.6

- Delivers immediate protection with a complete, licence-in-a-box solution.
- One-year maintenance agreement provides technical support and product updates at no additional cost.
- Protects desktops and file servers against viruses, Trojan horses, malicious ActiveX code, and Java applets.
- Digital Immune System™, automation delivers fast, reliable, and hands-free virus detection, analysis, isolation, and repair.
- Centralized policy management makes installation and administration easy-even in mixed computing environments.
- Schedulable LiveUpdate™ automatically retrieves new virus definitions from Symantec Security Response (formerly SARC™).
- Exclusive NAVEX™ technology updates scanning and virus repair engines without having to redeploy software.
- Supports Microsoft® Windows XP desktop and Microsoft Terminal Server environments.
- Backed by Symantec Security Response - the world's leading anti-virus and Internet Security research and response organization.



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## Back to Business Bundle

FLY BUYS 500 BONUS POINTS

SystemWorks 2002 protects your PC against virus threats, optimises performance and provides quick and easy system recovery. While Norton Personal Firewall 2002 keeps hackers out and personal data in.

Norton SystemWorks/Norton Personal Firewall Bundle (D9322): **$159**

Norton Systemworks Individually (D0787) **$122**

Norton Personal Firewall Individually (D0220) **$79**

Collect 500 Bonus Fly Buys points when you purchase D9322 between 20/02/02 - 30/03/02

Valid until 31st December 2002 for previous customers only. Coupon in Box.

INTERNET SECURITY 2002 NEW VERSION *$20 REBATE

For previous customers of: SystemWorks, AntiVirus, Personal Firewall & Internet Security.

SYSTEMWORKS 2002 RETAIL NEW VERSION *$30 REBATE

For previous customers of : SystemWorks, AntiVirus, Utilities, CrashGuard, CleanSweep, Internet Security.

SYSTEMWORKS 2002 PRO NEW VERSION

*$40 REBATE! For previous customers of SystemWorks, AntiVirus, Utilities, CrashGuard, CleanSweep, Ghost Personal Edition, Internet Security.

*Customer rebate requests will be sent to and fulfilled by Symantec Australia.

## Norton AntiVirus 2002

### Norton AntiVirus 2002

Norton AntiVirus™ is the world's most trusted anti-virus solution. Now it repairs common virus infections automatically, without interrupting your work.

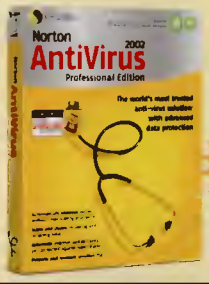
Windows READY!

(C9612) **$85**

Norton AntiVirus 5 User (D3475) **$259**

### Norton AntiVirus 2002 Pro

Norton AntiVirus 2002 Professional Edition provides the world's leading anti-virus solution now for small businesses. Includes new features to protect data on PCs and Palm OS.

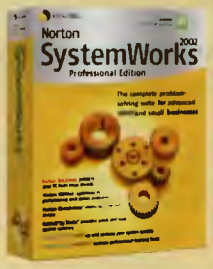



Windows XP READY!

NEW! (D9150) **$119**

## Norton SystemWorks 2002 Professional Edition

Norton SystemWorks Pro (D0680) **$159***




Norton SystemWorks™ 2002 Professional Edition is the complete problem-solving suite for advanced users and small businesses.

**Includes:** the following products, normally sold separately as:

- Norton AntiVirus™ 2002, (C9612) **$85**
- Norton Utilities™ 2002, (D0667) **$89**
- Norton CleanSweep™ 2002, (D0785) **$69**
- Norton Ghost™ 2002 (D0281) **$129**

*$40 Upgrade Rebate

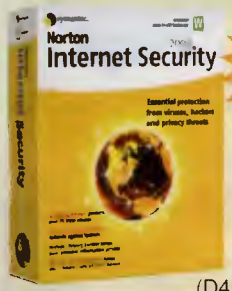
Windows READY!

## Norton Internet Security 2002

### Norton Internet Security 2002

*$20 Upgrade Rebate

Norton Internet Security™ 2002 is your essential protection from viruses, hackers and privacy threats. Contains a full version of Norton Anti Virus™ 2002 & Norton™ Personal Firewall 2002



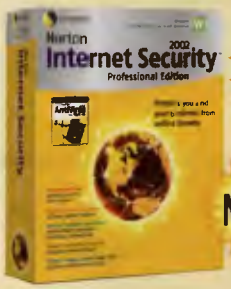

Windows READY!

(D0219) **$115***

Norton Internet Security 5 User (D4517) **$335**

### Norton Internet Security 2002 Pro

Norton Internet Security 2002 Professional Edition protects you and your business from online threats. It keeps your PC safe from viruses and hackers and safeguards your privacy.




Windows READY!

NEW! (D9319) **$149**

## Norton pcAnywhere V10.5

Symantec's pcAnywhere™ is the world's leading remote control software. Encryption and authentication ensure secure access to remote computers. pcAnywhere also works with cable & DSL modems for faster remote connections...

Windows READY!

NEW! (D8088) **$245**

Norton pcAnywhere V10.5/5 user (D5935) **$499**

Norton Winfax Pro V10.02 (D6011) **$123**



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# Symantec Enterprise Administration

## Symantec™ | *Value License Program*

HARRIS TECHNOLOGY™ for all your computer needs!

Symantec Value License Program is the fastest and easiest way to license Symantec software. The certificate-based program provides attractive volume discounts, minimal paperwork, and a low minimum initial purchase of only 10 units (1 unit for server based products). No legal review or contracts are required — all you need is a purchase order. Maintenance licenses are available with all license purchases, these include one year of Upgrade Insurance and Help Desk Gold Support

### Symantec Ghost™ 7.5 Corporate Edition

Symantec Ghost 7.5 Corporate Edition, the premier tool for PC deployment, recovery, cloning, and migration. Dramatically reduces IT costs by streamlining the configuration of networked workstations.

With Symantec Ghost Corporate Edition, an administrator can:

- Deploy whole application packages or specific PC changes (such as registry or desktop settings)
- Restore an OS image, incremental backup, or application onto a PC in minutes
- Migrate user settings and profiles to customise the PC

**Key Benefits**

- Reduces cost of ownership with comprehensive PC-management and user migration toolsets
- Streamlines the deployment of operating systems, application updates, and user settings to desktop and mobile workforces
- Accelerates migration to Windows® 2000 and Windows XP
- Is Windows 2000 and Windows XP certified PC deployment and management solution

**Other Options**

Symantec Ghost Corporate Edition licenses offers nine licensing tiers. Maintenance licenses are available with all license purchases. These include one year of upgrade insurance and Help Desk Gold support

(D9426) **$48** Min purchase of ten

Please call 1300 13 9999 for Educational and Government Licence Pricing

### pcAnywhere™ v10.5 for Windows®

pcAnywhere is a comprehensive remote control and file transfer solution for telecommuters and IS/IT professionals. It allows you to quickly and securely access remote computers. pcAnywhere v10.5 offers extensive security measures to ensure remote control hosts are correctly configured for optimal protection.

**Key Benefits**

- Windows XP logo certification - pcAnywhere 10.5 is "Designed for Windows XP".
- Host Assessment Tool - tests your configuration and highlights security limitations
- Logging improvements - Now log port scans on the pcA port and failed connection attempts.
- Rebootless Host - create host-only packages that do not require a reboot once the installation is complete.
- NT authentication - now supports nested global domain groups.

*Fast Delivery Australia-Wide*

**Product Options**

There are three licensing options available for pcAnywhere v10.5:

1. **Host/Remote License**
   Full functionality—allowing one computer to both call out to control another computer, or accept an incoming call to be controlled.
   (D9429) **$252** Min purchase of ten
2. **Host Only License**
   Host functionality—allowing one computer to accept an incoming call to be controlled by another computer.
   (D9432) **$136** Min purchase of ten
3. **Remote Only License**
   Functionality—Remote Only allows one PC to call out and control another PC.
   (D9435) **$170** Min purchase of ten



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# Develop, Deploy, Integrate Software Applications

## Borland® C++Builder™ 6 Professional

### RADical C++ for Windows®

Borland® C++Builder™ 6 Professional provides a highly productive visual development environment for building Web and database applications for the Windows® platform. C++Builder enables developers to easily integrate Web Services from across the Internet into their applications using the power and flexibility of SOAP, XML, and WSDL. C++Builder also includes CLX™ the Borland Component Library for Cross-platform development. CLX enables the creation of cross-platform-ready applications that can be re-compiled and run on the Linux® platform with currently planned releases of Borland C++ products for Linux. Gain access to data with database drivers supporting Borland InterBase®, Access, Paradox®, dBase®, and MySQL™.

**Key features:**

- Integrate Web Services into your applications
- Create cross-platform-ready solutions
- Quickly connect to your local databases
- Gain full control of the development and deployment of large projects
- Create powerful applications with a professional environment
- Benefit from accelerated code completion and CodeInsight™
- Diagnose your errors on the spot with CodeGuard™
- Build an optimized turnkey system with Borland InterBase®
- Build and reuse industry-standard ActiveX® and COM objects
- Leverage your existing C and C++ code

(E0923) **$2,135**

## Borland® Enterprise Server, Web Edition

### Improve your options

Borland® Enterprise Server, Web Edition is a complete, scalable, and robust deployment platform for Web applications. It includes Borland-enhanced versions of the Apache™ Web server and the Tomcat Web container, as well as JDataStore™, a Java™ database, for caching, session management, and general database needs. The Borland Web Engine, which integrates the Borland Web Server and Borland Web Container, is built on Borland VisiBroker®, the most widely deployed CORBA® solution on the market. This VisiBroker infrastructure provides industry-proven load balancing and fault tolerance in a deployment environment for JSP™/servlets, Web applications, and Web Services developed with the award-winning Borland Delphi™. J2EE® developers can now leverage industry-proven application server technology for JSP/servlets deployment.

(E0926) **$859**

## JBuilder 6 Professional

### The leading Java™ database and Web development solution

JBuilder™ is the leading cross-platform database and Web application development environment for the Java™ 2 platform. Rapidly build and deploy Web applications with servlets and JSP™ using JBuilder wizards and tools and the included Borland® Enterprise Server, Web Edition. Maximize productivity with code refactoring, Javadoc tools, JDK® switching, 250+ reusable JavaBeans™ with source, and advanced smart debugging. With presentation, transformation, and validation of XML documents, JBuilder helps you take full advantage of XML. Speed development of database applications with data-aware components and scalable database tools. Choose JBuilder 6 Professional for a flexible, open solution on Windows®, Linux® and Solaris™.

(D9237) **$2,149**

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## The #1 database for workgroups

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**TELL A FRIEND – AND WIN!** Tell a friend or colleague about FileMaker Pro and you could win a Business Productivity Booster Pack valued at approximately $990.00. By providing their contact details – with their permission – you will be entered into a draw to win: FileMaker Pro 5.5, FileMaker Mobile 1.0, Palm M105. To enter, complete you and your friend's contact details as outlined on the FileMaker web site at http://www.filemaker.com.au/promos/tellafriendpromo.html or by faxing (02) 9438 5947. See online for special conditions. Offer begins at 9am on 11 February 2002 and concludes at 5pm on 30 June 2002. By providing FileMaker with your friend's details, we assume that you have received the permission of the third party and it is essential that their permission is gained prior to entering the promotion. FileMaker Inc's privacy policy is available at http://www.filemaker.com.au/legal/notice_privacy.shtml

### FILEMAKER PRO 5.5

New FileMaker Pro 5.5 lets you quickly create solutions adapted to your workgroup needs, so you can easily track, manage, organise and share information and projects over an intranet or network. FileMaker Pro 5.5 is the ideal database to use with Microsoft Office. You can easily import and convert Excel files into functional and modifiable databases. You can even use FileMaker Pro 5.5 for flexible data interchange between Microsoft Word, Oracle, or other ODBC-compatible applications. Instant Web Publishing provides direct access to FileMaker databases via a web browser to search, edit, delete, and update records. The new and faster Web Companion provides a richer FileMaker Pro experience over the Web, allowing you to collect and share information even more easily than before.

(C3982) **$459**

### FILEMAKER PRO 5.5 UNLIMITED

**Unlimited Web deployment**

FileMaker Pro 5.5 Unlimited enables powerful Web database publishing which brings expanded productivity to the business workgroup, helping you manage, organise, and share important information over your intranet or the Internet. Utilise the FileMaker Web Server Connector to increase the performance, reliability and scalability of your FileMaker Web databases. Companies can use multiple copies of FileMaker Pro 5.5 Unlimited to set up a redundant array of inexpensive computers structure to provide scalable load balancing, fault tolerance, and ensure operation through fail over situations. FileMaker Pro 5.5 Unlimited may also be used with a wide variety of middleware applications, CGIs, and application servers for large-scale customised web solutions. Web database publishing has never been easier.

(D4277) **$1,899**

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### FILEMAKER DEVELOPER 5.5

FileMaker Developer 5.5 is the essential development environment for creating professional custom FileMaker solutions to be used for the Web, across workgroups or as royalty-free runtime applications. Powerful tools have been added to save you valuable development time. Test and verify your scripts with the new Script Debugger. Document the structure of any FileMaker solution with the push of a button and view detailed information on fields, layouts, value lists, scripts, relationships and passwords. Connect to external data sources with our JDBC, or ODBC drivers. You can also protect your solutions from modification and limit user controls. Whether you are developing commercial or in-house solutions, FileMaker Developer 5.5 is the tool of choice.

(D1365) **$949**

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### FILEMAKER SERVER 5.5

FileMaker Server 5.5 – an easy-to-use relational database server – is the best way to host your FileMaker Pro 5.5 solutions on Windows 2000 & Red Hat Linux. This high-performance server engine supports up to 250 FileMaker Pro 5.5 guests simultaneously on multiple platforms with several protocol options and up to 125-hosted files. FileMaker Server 5.5 includes automatic plug-in updating, scheduled backups and remote administration tools to monitor server activity and to control guest and file connections. FileMaker Server 5.5 is designed for ease of use while supporting standard technologies such as LDAP and Windows authentication.

(C7741) **$1,949**

### FILEMAKER VOLUME LICENSE AGREEMENT PROGRAM

The FileMaker Volume License Agreement (VLA) program is a convenient way to provide your organisation with the FileMaker Pro software it requires - while recognising significant savings. The first VLA discount tier starts with just 10 units. Discounts range from 25% to 65% off boxed product prices of FileMaker Pro. The more users you license, the better the savings.

Licensing customers wishing to license FileMaker Server, FileMaker Pro Unlimited, FileMaker Developer, or FileMaker Mobile are eligible for a discounted, VLA single unit price point for these products. These products count toward FileMaker Pro discount tier minimums when purchased with FileMaker Pro. For qualified FileMaker Pro licensing customers, there is no minimum quantity required to purchase these products separately from FileMaker Pro. Media & Documentation - VLA orders include one CD set of the software media including an electronic documentation set (user manuals) for the product licensed. Printed documentation sets are not included in the license fee, but may be ordered for an additional charge.



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| • Visual Studio®.NET Enterprise Developer | ● | ● | | | |
| • Visual Studio®.NET Enterprise Architect | ● | | | | |
| • Visual FoxPro® 7.0 Professional | ● | ● | ● | | |
| **Continuously Updated Resources** | | | | | |
| • Continuously Updated Resources | ● | ● | ● | ● | ● |
| • Regular Updates on CD or DVD | ● | ● | ● | ● | ● |
| **Technical Resources** | | | | | |
| • New Releases, Product Updates, & Service Packs | ● | ● | ● | ● | ● |
| • MSDN® Library | ● | ● | ● | ● | ● |
| • Software Betas | ● | ● | ● | ● | |
| **Microsoft Operating Systems[2]** | | | | | |
| • Windows® 2000 Professional, Server, and Advanced Server | ● | ● | ● | ● | |
| • Windows XP Home and Professional | ● | ● | ● | ● | |
| • Windows... NET Standard Server, Enterprise Server and Web Server[1] | ● | ● | ● | ● | |
| **Microsoft Server Test Platforms[2]** | | | | | |
| • SQL Server™ 2000, Exchange 2000 Server, Commerce Server 2000, and Host Integration Server 2000 | ● | ● | | | |
| • BizTalk™ Server 2000, SharePoint™ Portal Server 2001, Application Center 2000, Mobile Information 2001 Server, Internet Security & Acceleration Server 2000 | ● | | | | |
| • Content Management Server 2001[1] | ● | | | | |
| **Microsoft Productivity Applications** | | | | | |
| • Visio® Professional 2002, Office XP, and Project 2000 | ● | | | | |

1 MSDN Subscribers will receive the final release versions of Visual Studio .NET, Windows .NET Standard Server, Windows .NET Enterprise Server, Windows .NET Web Server, and Content Management Server when they are available.

2 Includes a limited license for development and testing only. Windows NT® Server and BackOffice® licenses limited to ten (10) simultaneous connections. Some software may have usage restrictions imposed via time limits. Small Business Server limited to two (2) connections.

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Microsoft Office XP

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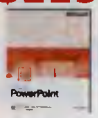

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- Manage your IT spend annually.

| PRODUCT DESCRIPTION | Office xp STANDARD | Office xp PROFESSIONAL | Office xp DEVELOPER | Office xp PROFESSIONAL SPECIAL EDITION UPGRADE | Office xp PROFESSIONAL SUBSCRIPTION | Office xp SMALL BUSINESS SUBSCRIPTION |
|---|---|---|---|---|---|---|
| Word 2002 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Excel 2002 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Outlook 2002 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PowerPoint 2002 | ✓ | ✓ | ✓ | ✓ | ✓ | |
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| Publisher 2002 | | | | ✓ | | ✓ |
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| Developer Tools | | | ✓ | | | |
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Websearch 189608

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## GET SET FOR GREAT DEALS

Welcome to March's Buyers Guide. With great deals like these they'll race out the door! Check out the double-page spreads on laptops, handhelds and DVD/CD Writers in this edition.

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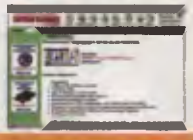

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|---|---|---|---|
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| | | | |
| | | | |
| | | | |
| | | Delivery | |
| | | TOTAL | |

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MULTIMEDIA

## Pinnacle Studio DV

**With the Studio DV range you can take Hollywood home!**

Pinnacle Studio DV and your creativity are all you need to turn your home movies into masterpieces. Studio DV is a complete solution combining award winning software with a DV/Firewire video capture board. The Pinnacle Studio software combines a simple drag and drop interface with professional features like:

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- Frame capture
- Slow / Fast Motion (except the Clip version)
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- Includes Hollywood FX for Studio for fantastic 3D transitions (Studio DV ver7, Studio DV+ ver 7 only)
- Output to MPEG1/2, WEB, VCD, SVCD and DVD (Studio DV ver7, Studio DV+ ver 7 only)
- Output to VHS and SVHS (Studio DV + only)

Studio DV Clip
**Studio DV hardware and Studio 7 SE**
**$275.00**
Websearch Code ...PIN039

Studio DV ver 7
**Studio DV hardware and Studio 7 with HFX**
**$379.00**
Websearch Code ...PIN038

Studio DV + **Studio DV hardware with VHS/SVHS output and Studio 7 with HFX**
**$460.00**
Websearch Code ...PIN033

## Pinnacle Express

Express is a new generation of software that will allow you to convert your home movies filmed with a Digital Camcorder onto a CDR or even a DVD R/RW. Create Video CDs or DVD Videos-both compatible with most home DVD Players. Capture your video from your DV camcorder.
Create CDs or DVDs for your DVD player. Detects each scene on your DV tape and create an interactive menu that can be customized up to one hour onto a CD at VHS quality (VCD), 1/2 Hour at SVHS quality (SVCD) or 15 minutes at DVD quality(mini DVD onto CD). Compatible with most DVD players (all JVCs and Philips are 100% certified) (incompatible with early DVD players that does not support CDR Media) Requires a CDR/W or DVD R/W, and a Firewire port to connect to your camcorder.

**$129.00**
Websearch Code ...PIN040

## Pinnacle MP20

Going ahead in the world of multimedia, Pinnacle is proud to launch its new innovation MP20. The MP20 provides you everything you need to back up any video onto a DVD-R or RW so it can be watched later onto a DVD player.

Did you know that after 8 years your VHS tapes will be unwatchable ?

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- Capture videos from Composite and S-Video sources
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- Author like a pro DVDs with interactive menus with the Pinnacle Impression DVD SE.

NEW!

**$625.00**
Websearch Code ...189582

## Pinnacle Studio 7

Simply the best movie-making software available today. Made by the same people who've won seven Emmy Awards creating video-editing gear for the Hollywood pros. Studio 7 lets you turn your home movies into Hollywood masterpieces. Now with Studio 7.0 software, anyone with a FireWirecard or other PC video capture hardware can take advantage of it's great features to make amazing video. Software only.

Upgrade
**$184.00**
Websearch Code ...PIN036

Full Product
**$245.00**
Websearch Code ...PIN035

PINNACLE SYSTEMS

## Pinnacle Studio DC10+version 7

Pinnacle Studio DC10+ version 7 and your creativity are all you need to turn your home movies into masterpieces. Studio DC10+ version 7 is a complete Solution combining award winning Pinnacle Studio video editing software, with a Hi 8 and VHS video capture and output board. The Pinnacle Studio software combines a simple drag and drop interface with professional features, like fast/slow motion, custom audio, over 100 transitions including Hollywood FX 3D effects, advanced color correction, contrast and brightness control, and more.

**$465.00**
Websearch Code ...PIN042

## Pinnacle DV 200

**Pinnacle DV 200 the fastest DV editing card**

- Firewire 3 port card
- Pinnacle DV2 Codec for near real time or instant editing (expendable technology)
- Export to VCD, SVCD, Web Streaming
- Adobe Premiere 6 Full version
- Adobe Photoshop LE
- Pinnacle Impression and Title Deko
- Hollywood FX Copper and Alpha Magic

Low Price

**$899.00**
Websearch Code ...PIN041

PINNACLE SYSTEMS

## DV500 PLUS - Gold Edition

DV500 PLUS is the ONLY real-time editing solution which takes advantage of features such as:

- Real-time multi-track audio mixer
- Real-time 16:9 widescreen effects, transitions and titles
- TitleDeko RT with video output for title creation previews
- Real-time image correction for colour and brightness controls
- Export to VCD and SVCD
- Adobe Premiere 6
- Adobe Photoshop LE
- Pinnacle Impression DC-Pro
- Pinnacle Hollywood FX Copper
- Pinnacle Hollywood FX Alpha Magic
- Pinnacle Instant Video Technology

Low Price

PINNACLE SYSTEMS

**$1749.00**
Websearch Code ...PIN037

## Pinnacle Studio ONLINE

**Share your video on the WEB!**

Edit your videos using this USB to Video cable, add titles and sounds with the Studio software. Once finished, by the click of a button, upload your video to the Studio online web site and allow your friends and family to view them thanks to Microsoft Media technology (MPEG 4). No need for download then just click on the link and the video will be streamed to your desktop wherever and whenever.

**$179.00**
Websearch Code ...PIN031

## Pinnacle Studio VCD

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- Video CD players Studio VCD is your complete VCD creator
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- Easy to use trimming tool for recorded MPEG streams using a RealTime MPEG 1 encoder recording application
- PCI Capture card
- VHS & SVHS Inputs
- VCD Encoder
- Studio Demo CD
- Nero 5 Burning ROM

**$209.00**
Websearch Code ...PIN032

## STORAGE

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Made of Fine Grain Leather, form fitting pocket secures iPAQ while providing slots for business and credit cards. Secure snap fastening.

**$45.00**
Websearch Code ....189622

### Belkin Universal PDA Cleaning Kit

Specially formulated fluid creates a protective layer. Includes 10 lint free wipes, plus a reusable micro-fiber cleaning cloth & portable case.

**$28.00**
Websearch Code ....189629

### Belkin Sync Charger (USB) iPAQ

Charges and synchronises your IPAQ via USB plus bonus Cigarette Lighter Adapter.

**$45.00**
Websearch Code ....189623

# AT LAST...

## Century CD Storage

Century CD (CCD) is the industry's first affordable, intelligent CD and DVD storage unit, providing the user with a 100 disk capacity per unit. By stacking multiple CCD units the device is scaleable to manage up to 127,000 disks from a single interface on your PC. This allows you to have the safest and most convenient way to store and retrieve your important data.

Loading disks into the CCD is quick and easy. The CCD software offers you a list of all currently stored CD's. You just point and click, or use the inbuilt search capability to locate a CD, even if you only remember part of it's name. Don't remember which disk a certain song is on? No problem... the track search facility will locate it for you!

From software developers to desktop publishers, everyone needs to keep reference materials within easy reach. With much of this information on multiple disks, CCD is the perfect solution for minimizing downtime & maximising productivity.

**Features:**

- Cost effective storage and retrieval
- Plug and Play (Windows 95/98/Me/NT4/2000/XP and Mac OS 9.1 compatible)
- Easily stackable access to inventory (data and audio info)
- Inbuilt search capability
- Sturdy plastic housing enhances protection against shock and dust
- Automatic cataloguing of CDs
- 1,270 CCD units can be controlled by the same interface
- 12 month limited warranty

**$335.00**
Websearch Code ....189628

## LaCie 80GB Hard Disk FastFireWire

LaCie new FireWire HD is based on Oxford 911 chip which provides higher transfer rates of 30MB/s. Specially recommended for video editing, it is hot pluggable and comes with all software for Mac (from OS8.6 to OSX) and PC (from Win98SE up to XP).

**$629.00**
Websearch Code ....189606
RentSmart $6.89 pw

## Pocket Hard Disks

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20GB U2&12 (USB2 & FastFireWire)
**$549.00**
Websearch Code ....LAC010
RentSmart $4.00 pw

30GB U2&12 (USB2 & FastFireWire)
**$669.00**
Websearch Code ....LAC022
RentSmart $5.33 pw

## LaCie Electronblue Monitor 22" VIII

LaCie state-of-the-art 22" monitor has been designed specifically for Graphics users and Photographers. A maximum resolution of 2048x1536 @85Hz, 5 USB ports(2 upstream, 3 downstream), a Blue hood, and unmatched image quality and color control.

**$2549.00**
Websearch Code ....189605
RentSmart $25.00 pw



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## STORAGE

## Zip 250MB USB Host Powered

**NEW - Zip™ 250MB USB host-powered drive**

Now it's even easier to take your information with you. The Zip™ 250 USB drive is now available with a USB cable that provides both data and power, so you don't need any external power source. Powered by a USB cable, its easy to connect (just plug it in) and easy to launch (no rebooting). This new drive is compatible with most major operating systems and all Zip™ 100MB and 250MB Zip™ disks.

iomega

**$385.00**
Websearch Code ....111061

## Zip 100MB Fast Start

With the simplicity and reliability of a Zip® 100MB Parallel drive and a Zip® 100MB disk included, there's no faster way to get started with Iomega!

Create, edit, share and back up your work or personal information with Zip. It is easy to use and operates just like a floppy. It allows you to effectively manage your work and large files like presentation material, graphics, architectural drawings, digital photos and music. It makes unlimited storage incredibly affordable.

iomega

**$249.00**
Websearch Code....IOM162

## Zip 100MB USB Host Powered

**NEW - Slimline USB host-powered drive**

The Universal Serial Bus (USB) technology is the emerging standard for connecting anything to your computer. This state-of-the-art interface makes good on the long-touted promise of simple plug-and-play capability, moving beyond traditional limitations and annoyances of the SCSI or parallel port interfaces. Now, USB-equipped Macintosh and PCs running Microsoft Windows 98 can begin utilizing USB advantages.

- Back up your hard drive
- Take your stuff with you
- Use it like a hard drive
- Great for multimedia
- Plug-and-play USB connection

iomega

**$195.00**
Websearch Code....IOM151

## Iomega® CD-RW USB 16x10x40x USB 2.0.

The Iomega External 16x10x40 CD-RW drive boasts higher speeds due to higher throughput of USB 2.0. This drive is also compatible with USB 1.1, which limits the drive speeds to 4x4x6. It includes all the hardware and industry-leading software you need to burn fast. Product also includes USB data cable, audio cable, external power supply, one CD-R disc, and quick install manual.

**$499.00**
Websearch Code ....189573

## Peerless

The next generation in high-capacity removable storage. Iomega's Peerless™ drive system offers 10GB and 20GB disks, interchangeable interfaces, and 15MB/sec transfer rates for stunning performance. Slim, modular design provides reliability, speed and portability. Firewire® and USB 1.1 interfaces available. It's powerful enough to store all your files, fast enough to run applications straight from the drive, and versatile enough to go anywhere with you.

RentSmart $11.13 pw
USB 20GB
**$1015.00**
Websearch Code IOM155

RentSmart $10.95 pw
Firewire (Mac&PC) 20GB
**$999.00**
Websearch Code IOM157

## Predator 24x10x40x

External USB 2.0 CD-RW drive boasts higher speeds due to higher throughput of USB 2.0. This drive is also compatible with USB 1.1, which limits the drive speeds to 4x4x6. It includes all the hardware and industry-leading software you need to easily and very quickly burn CDs. Comes with Iomega HotBurn CD mastering software, MusicMatch Jukebox, and Adobe ActiveShare for PC. Product also includes USB data cable, audio cable, external power supply, one CD-R disc, and quick install manual.

**Note:** This product does not include a hi-speed USB2.0 card necessary to achieve full 24x10x40 speeds. This card for the computer must be purchased separately or comes as part of the original computer hardware.

iomega

**$549.00**
Websearch Code ..189323

## Microdrive

Iomega's Microdrive 340MB and 1GB miniature removable drives provide high-performance storage for digicams, laptops, and PDAs. Enjoy the freedom of expanded storage capacity for a fraction of the price of flash memory cards. Perfect for capturing hundreds of photos, presentations, PDFs, spreadsheets, music and video. CF+ type II format. Includes $130 Iomega coupon booklet.

- Fits virtually all CompactFlash™- ready digital devices.
- Get more megabytes of storage at a fraction of the cost.
- Fast data transfer speeds.
- Easy plug and play sharing between devices.
- PC card adapter is included.

RentSmart $9.96 pw

340MB
**$449.00**
Websearch Code IOM153

1GB
**$909.00**
Websearch Code IOM152

## Accessories/Media

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 129488 | Jaz 1GB PC Disk | $195.00 | 189566 | Jaz 2GB Mac Disk | $195.00 | 129828 | Zip 100MB Mac Disk | $29.00 |
| IOM032 | Jaz 1GB PC 3 Pack | $569.00 | 189565 | Jaz 2GB Mac 3 Pack | $565.00 | IOM074 | Zip 100MB Mac 10 Pack | $199.00 |
| 189567 | Jaz 1GB Mac Disk | $175.00 | IOM106 | PocketZip 40MB 2 Pack | $49.00 | IOM103 | Zip 250MB PC Disk | $35.00 |
| AUP162 | Jaz 1GB Mac 3 Pack | $575.00 | 189568 | PocketZip 40MB 10 Pack | $215.00 | IOM102 | Zip 250MB PC 10 Pack | $249.00 |
| 129664 | Jaz 2GB PC Disk | $215.00 | IOM085 | Zip 100MB PC Disk | $29.00 | IOM007 | Zip 250MB Mac Disk | $35.00 |
| IOM089 | Jaz 2GB PC 3 Pack | $625.00 | IOM030 | Zip 100MB PC 10 Pack | $199.00 | 189558 | Zip 250MB Mac 10 Pack | $249.00 |

## Iomega® Peerless Drive Disks for PC or Mac

iomega

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| IOM158 | PEERLESS 10GB DISK PC | $339.00 |
| IOM159 | PEERLESS 20GB DISK PC | $425.00 |
| IOM160 | PEERLESS 10GB DISK MAC | $339.00 |
| IOM161 | PEERLESS 20GB DISK MAC | $425.00 |

**COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!**

CONNECTIVITY & STORAGE

# Maxtor

Add 80gb extra storage space!

## 1394 External Storage

*The easy way to add storage*

The fast, easy way to add storage to your PC or Mac. With data transfer rates up to 30 times faster than USB and the highest capacity available, the 1394 External Storage solution is perfect for today's storage-hungry digital entertainment equipment. Just plug it in and go – it's ready to use right out of the box for PC users and Mac users. Compatible with 1394, i.LINK and FireWire and powered by Maxtor's award-winning hard drive, it offers dependable storage/back-up for all your important documents and precious memories. Each easy to install 80 GB unit stores up to 20,000 MP3 tunes, 80 hours of compressed video or 8,000 digital pictures (10Mb / 3.3 Mpixels). Stack more than one of these ultra-sleek units for virtually unlimited storage.

Run applications, edit videos, listen to music, download files, or play games. Powered by Maxtor's award-winning hard drive, Maxtor's External Storage offers dependable storage/backup and work space for all your important documents and precious memories. Every Maxtor External Storage device is backed by unparalleled support, including our renowned No Quibble Service.

80GB **$775.00** Websearch Code ....MAX001

40GB **$525.00** Websearch Code ....MAX002

**80 GB or 40 GB**

*Designed for fast, easy storage upgrades*

*PC and Mac Compatible*

FEATURES:

- Easy installation
- 1394, i.LINK and FireWire compatible
- Stackable ultra-sleek design
- 400 Mb/sec data transfer rate
- Powered by Maxtor's award-winning hard drive
- No Quibble Service and support

### Belkin F8Q1502 iPAQ ClipKee Keyboard

Plug and play convenience, easy installation, drivers included. Ergonomic thumb-board design, includes carrying case.

**$89.95** Websearch Code ....189601

### Belkin F8E717 LCD Screen Overlays iPAQ

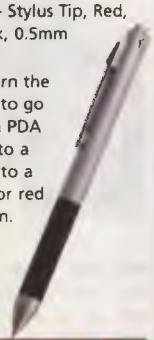
Adds a clear protective shield for the screen, prevents scratching, eliminates grime and fingerprints. Includes cleaning cloth & Smoothie card. Pack of 12.

**$25.00** Websearch Code ....189597

### Belkin F8E708 4-in-1

- PDA Stylus
- Pen - Stylus Tip, Red,
- Black, 0.5mm Pencil

Just turn the barrel to go from a PDA stylus to a pencil to a black or red ink pen.



**$37.00** Websearch Code ....189596

### Belkin F5C195zTEL Surge Cube with TEL

Single outlet surge and telephone/fax/modem protection for notebook computers and cordless phones. $15,000 Connected Equipment Warranty. Lifetime Warranty. 1.8m Telephone Cord provided.

**$37.00** Websearch Code ....189598

### Belkin F8E882-OPT Optical MiniScroller Mouse

The MiniScroller™ Optical USB/PS2 Mouse uses an optical sensor that photographs surface patterns at 1500 frames per second.

**$55.00** Websearch Code ....189599

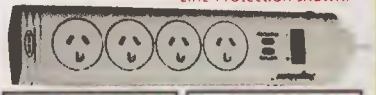
### Belkin F1DB102P E Series 2 Port PS/2 KVM Switch & F1DB104P E Series 4 Port PS/2 KVM Switch

The OmniView™ E Series 2-Port & 4-Port KVM Switches are the solution for controlling two or four PS/2 computers with one keyboard, monitor, and mouse. 2048x1536@85Hz video resolution, hot key switching, system sourced power, 10 second auto scan, full keyboard and PS/2 emulation. Belkin F3X1105-06 or F3X1105-10 cables required. 2 year Warranty and free Technical Support.

**$95.00** Websearch Code ....189600

### Belkin SurgeMaster

The Belkin 4 and 5 plug surge board (both with telephone line) offers ultimate protection against power spikes or lightening to all equipment connected to the board. This fantastic surge protector comes with a $10,000.00 connected equipment warranty. Put simply if the surge board fails to protect your equipment we will pay up to $10,000.00 for the equipment connected to the surge board. Thats real peace of mind for your valuable equipment. *SurgeMaster with Telephone Line Protection shown.*



Surge Protector (5 Plug) Tel. **$74.00** Websearch Code ..189595

Surge Protector (4 Plug) Tel. **$69.00** Websearch Code ..BEL176

### Belkin CD Launcher

Design your own CD labels and jewel case inserts with the Belkin CD LaunchPad. For skilled graphic designers or computer beginners. Write liner notes or anything you please while adding your custom designs or images provided on the software. The LaunchPad frees your imagination to create labels and inserts that reflect your personal style.

**$29.00** Websearch Code ..BEL170

### Belkin VideoBus II

Your PC and camcorder merged into a desktop video studio. Complete with MGI VideoWave III SE software, it gives your PC the power to make stunning movies and more. Edit the scenes using the included MGI VideoWave III SE. Enhance photographs and create photo albums, greeting cards and calendars with MGI PhotoSuite III SE software. Produce videos on your computer at resolutions up to 352 x 288dpi and 30 frames per second.

**$129.00** Websearch Code ....111038



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## CONNECTIVITY

### Netgear RT314 AU
**Router**
- Combination switch and router creates full-duplex back bone
- 4-port, 10/100 switch
- DSL or cable modem connection
- NAT technology prevents hackers
- Firewall security and control
- Plug and Play convenience

$394.00
Websearch Code ....NET204

### Netgear RP114
**Router**
NETGEAR's RP114 Cable/DSL Web Safe Router with 4-port switch provides you with multiple Web content filtering options, plus browsing activity reporting and instant alerts via e-mail. Parents and network administrators can establish restricted access policies based on time-of-day, URL and URL keywords while sharing high-speed cable/DSL Internet access.

$379.00
Websearch Code ....NET237

### Netgear FR314
**Router**
NETGEAR's FR314 Cable/DSL Firewall Router provides high-level security for the home and home office, providing worry-free, hardware-based true firewall protection. Share a cable/DSL service among networked computers — Stateful Packet Inspection technology prevents DoS attacks and malicious packets. Includes Internet access blocking and reporting capabilities and is also capable of VPN pass-through.

$699.00
Websearch Code ....NET240

### Microsoft IntelliMouse Optical
The IntelliEye optical sensor that tracks movement 1,500 times per second providing smooth and precise motion.

$85.00
Websearch Code ....131013

### Netgear 10/100 Mbps 5 Port Fast Ethernet Switch (FS105)
**Brings the 100 Mbps switching technology and simplifies it for the small office marketplace.**
Provides a cost effective way to instantaneously boost network performance while preserving your network infrastructure, including installing cabling and desktop and hardware. Since each port is auto-speed-sensing, installation is plug and play and each connection can easily be upgraded from 10 to 100 Mbps.

5 PORT
$169.00
Websearch Code ....BAY169

### Netgear 10/100 Dual Speed 8 Port Hub (DS108)
**Connects multiple PCs to share printers, files, internet access, and e-mail communications.**
One can mix and match 10 and 100 Mbps PCs, servers, and peripherals with these hubs, all without any configuration required. The DS100 family combines a lot of capabilities in very compact form factors and are designed for small business users who are very price concious.

8 PORT
$249.00
Websearch Code ....NET157

### Netgear 10Base-T hubs
The NETGEAR 10BASE-T hubs deliver standards-based, plug-and-play networking solutions for small businesses, home offices and low-density workgroups. Featuring a compact design and low cost, these hubs represent value for users seeking the most straight-forward and reliable connectivity solution available.
- Resource sharing
- Slim, sturdy metal case design
- BNC/AUI backbone support
- Uplink port for network expansion

4 PORT
$85.00
Websearch Code ....BAY131

6 PORT
$89.00
Websearch Code ....NET191

### Microsoft IntelliMouse Explorer
The new sensor scans the surface 1,500 times per second to accurately and crisply track the smallest motion.

$95.00
Websearch Code ....130969

### Network Starter Kits
These Network Starter Kits contain everything that Windows users need to start networking right away, all in one box. Within a few minutes, you will be able to share files, printers, and access to the Internet; exchange email; or play interactive network games. By taking the best in networking technology and making it simple and affordable, NETGEAR brings the benefits of networking into the hands and budget of small businesses.

**SB105 10 Mbps Ethernet Kit**
- One 5-Port ethernet hub
- Two PCI dual-speed network cards
- Two 10 foot network cables
- How-to guides

**FB105 100 Mbps Fast Ethernet Kit**
- One 5-Port fast ethernet hub
- Two PCI dual-speed network cards
- Two 10 foot network cables
- How-to guides

NETGEAR

SB105
$139.00
Websearch Code ....NET188

FB105
$245.00
Websearch Code ....NET201

### Netgear USB Ethernet Adapter (EA101)
Allows you to connect Windows 98 PCs to Ethernet networks without opening your computer. Using an open USB port on either your computer or a USB hub, the EA101 enables you to connect to any standard Ethernet network. You can now add Ethernet networking to your computer without installing any internal cards. Includes Netgear's free 24-hour phone support.

$69.00
Websearch Code ....189554

### Microsoft Wireless IntelliMouse Explorer
IntelliEye optical technology and power-saving technology, offers unprecedented performance, accuracy and control.

$149.00
Websearch Code ..MSM010

### Netgear PCMCIA Wireless
**PC Card**
NETGEAR's MA401 802.11b Wireless PC Card for notebook computers provides mobile 11 Mbps access to corporate resources, e-mail and the Internet, and quick connectivity without Ethernet cabling. It safeguards your network, and performs with most airport and hotel wireless Internet services, supports.

$329.00
Websearch Code ....NET219

### Netgear FA411
**PCMCIA Card**
NETGEAR's FA411 10/100 Mbps PCMCIA Mobile Adapter connects notebook PCs to networked computers, peripherals, and the Internet with 100 Mbps performance at a 10 Mbps price. It auto-detects network speed, and supports legacy and major O/S. There's no dongle to lose or break, and the FA411 comes with a lifetime warranty.

$125.00
Websearch Code ....NET236

### Netgear FA310 10/100 Mbps
**Network Card**
- 10/100 Dual Speed Operation
- Auto-sensing RJ-45 interface
- High-throughput and low CPU utilisation
- Full or half-duplex
- Plug and play installation
- ISA, PC card, USB and Gigabit versions also available
- Lifetime warranty

$55.00
Websearch Code ....NET214

**COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!**

# PORTABLE DIGITAL ACCESSORIES

## Palm m500/m505

**Leather Wallet Case**

Beautifully crafted of soft black leather with a slim design that's a perfect fit for your pocket or purse. Also a full-featured wallet.
*Palm not included.

**$69.00**
Websearch Code ....USR165

## Palm m500/m505 Keyboard

Weighing in at less than 8 ounces, this full-size keyboard folds into a size just slightly bigger than a Palm™ organizer itself, making it a practical enhancement for those seeking the speed of data entry that only a keyboard provides. Set your Palm organizer in the custom docking cradle and start typing.

**$229.00**
Websearch Code ....189289

## Palm v Stylus

This convenient, affordable multi-pack lets you keep extra styli at home, in the office, or in the car. Each handy pack contains 3 black plastic styli for your handheld.

**$28.00**
Websearch Code ....USR119

## Palm m100

**Take control with the Palm™ m100 handheld.**

Entry level handheld PC. 2MB memory, advanced LCD with backlight, Palm OS 3.5, Address Book, Date Book, Clock, To Do List, Memo Pad, Note Pad and Calculator. Infrared transfer - accept and transmit information from any other IR enabled Palm OS handheld. Product contents: Palm m100 handheld, Hotsync cable, 2 AAA alkaline batteries, CD-ROM, Getting Started Guide, Stylus, Protective Flip cover.

**$249.00**
Websearch Code ....USR153

## Palm Vx

Lightweight and powerful connected organiser. Enhanced screen technology - easier to see at all angles/light. Weighs 113.4 grams, 8MB memory to store approximately 10,000 addresses, 3000 appointments, 3000 to-do items, 3,000 memos and 400 e-mails. Applications include Date Book, Address Book, Mail, To Do List, Memo Pad, Expense, Calculator, Security, Games and HotSync software. Includes HotSync cradle and battery recharger, Palm Desktop organiser software, handbook, getting started guide, DB-25 adapter, replaceable leather flip cover and infrared capability.

**$689.00**
Websearch Code ....USR151
RentSmart $7.55 pw

## Palm m105

Internet capable handheld PC. 8MB memory, advanced LCD with backlight, Palm OS software 4.1, Address Book/Date Book/Clock/To Do List/Memo Pad/Note Pad/Calculator. Infrared transfer - accept & transmit information from any other IR enabled Palm OS handheld. Product contents: Hotsync cradle, 2 AAA alkaline, CD-ROM (Palm Desktop Software for PC and Mac, Mobile Internet Kit. Link to Microsoft Outlook, AvantGo Software), Getting Started Guide, Stylus and Protective Flip cover.

**$349.00**
Websearch Code ....USR500

## Palm m500

**Travel light, Expandable, Internet-capable.**

Internet capable handheld PC. 8MB memory, enhanced high contrast LCD with backlight. Palm OS software 4 (enhanced security and internet connectivity), Address Book/Date Book/Clock/To Do List/Memo Pad/Note Pad/Calculator, Secure Digital Multimedia Card Expansion Slot and Universal Connector, Infrared transfer capability and vibrating and LED alarms. Product contents: USB Hotsync cradle with battery charger, Palm Desktop software, Palm Mobile Connectivity software, Documents to Go 3, MGI PhotoSuite Mobile Edition, Avant Go, Pocket Mirror 3, Palm Reader, and Multimedia SE.

**$749.00**
Websearch Code ....USR501
RentSmart $8.21 pw

## Palm m125 Handheld

Expandable and connectable handheld PC. 8MB memory - store more than 50 add-on applications (average size 50K). Advanced LCD with backlight. Palm OS software 4 - enhanced security and internet connectivity. Applications include Address Book/Date Book/Clock/To Do List/Memo Pad/Note Pad/Calculator and HotSync mail, MultiMail SE, Avant Go Vinidgo, Palm Reader, MGI PhotoSuite, DataViz Documents To Go, Palm Mobile Connectivity Software. Includes Secure Digital Multimedia Card Expansion Slot and Universal Connector. Infrared transfer capability. USB Hotsync cradle and Palm Desktop software included.

**$489.00**
Websearch Code ....USR505

## Palm m505

**Grow as your needs grow.**

Internet capable handheld PC with colour display. 8MB memory, 16-bit colour display with backlight, Palm OS software 4 (enhanced security and internet connectivity), Address Book/Date Book/Clock/To Do List/Memo Pad/Note Pad/Calculator, Secure Digital Multimedia Card Expansion Slot and Universal Connector, Infrared transfer capability, and vibrating and LED alarms. Product contents. USB Hotsync cradle with battery charger, Palm Desktop software, Palm Mobile Connectivity software, Documents to Go 3, MGI PhotoSuite Mobile Edition, Avant Go, Pocket Mirror 3, Palm Reader and Multimedia SE

RentSmart $10.51 pw
**$959.00**
Websearch Code ....USR502

## Compaq iPAQ Pocket PC H3850

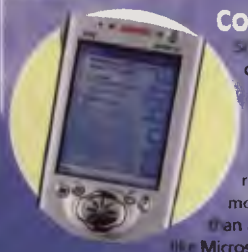
Allows users to add CompactFlash memory cards and PC Card modems, among other accessories. Ships with a screen-cover sleeve, a welcome improvement over the black slipcover that comes with other iPAQs. Also, gamers will be glad to know that the buttons below the screen can now recognize two simultaneous button presses. This is vitally important when playing games that require you to move and fire at the same time. Clearly, the addition of the SD card slot and the more colourful screen make the iPAQ 3850 a compelling device.

*Dimensions: 8.4cm x 1.6cm x 13.3cm*
*Weight: 200 grams*
*Memory: 32 MB flash*
*Warranty: 1 year warranty*
*Operating System: Microsoft Pocket PC 2002*
*Display: 3.8" TFT active matrix*
*RAM: 64 MB SDRAM*
*Processor: SA-1110 206 MHz Intel*

**$1379.00**
Websearch Code ..COM201
RentSmart $15.12 pw

## Compaq iPAQ Pocket PC H3760

Sam and Power a sleek, elegant design, brilliant colour TFT screen, fastest available processor. Expandable, Versatile - iPAQ Expansion Packs provide an extraordinary array of functionality. Forward-reaching - Pacesetting iPAQ Pocket PC showcasing Microsoft Pocket PC 2002. Designed to ride along on the voyage of life - in your pocket or mounted to your mountain bike. It's not much bigger than a calculator and comes standard with applications like Microsoft Pocket Word, Excel, Outlook, Internet Explorer, and Windows Media Player.



*Dimensions (WxDxH): 8.4cm x 1.6cm x 13.0cm*
*Memory: 32 MB flash*
*Operating System: Microsoft Pocket PC 2002*
*Display: 3.8" TFT active matrix*
*RAM: 64 MB SDRAM*
*Processor: SA-1110 206 MHz Intel*
*Warranty: 1 year warranty*
*Weight: 179g*

**$1049.00**
Websearch Code ..COM200
RentSmart $11.50 pw



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## HP Jornada 565 Pocket PC

Sleek, expandable and versatile colour Pocket PC. 206MHz 32-bit Intel SA-1110 application processor, 32MB RAM, 103MHz memory data bus, TFT display (240x320 pixels), IrDA infrared, 1 x RS232 serial & 1 x USB port (slave), CompactFlash Type I extended card slot, AC input jack, stereo earphone jack, audio speaker and microphone, built-in voice recorder, digital audio player compatible, weighs 173 grams. Pen and touch interface (stylus included). Includes Microsoft Windows 2002 for Pocket PC plus more software.

## HP Jornada 568 Pocket PC

Sleek, expandable and versatile colour Pocket PC. 206MHz 32-bit Intel SA-1110 application processor, 64MB RAM, 103MHz memory data bus, TFT display (240x320 pixels), IrDA infrared, 1 x RS232 serial & 1 x USB port (slave), CompactFlash Type I extended card slot, AC input jack, stereo earphone jack, audio speaker and microphone, built-in voice recorder, digital audio player compatible. Pen and touch interface (stylus included). Includes Microsoft Windows 2002 for Pocket PC plus more software.

JORNADA 565 **$1169.00** Websearch Code ...189288 — RentSmart $12.81 pw

JORNADA 568 **$1349.00** Websearch Code ...189230 — RentSmart $14.79 pw

## Toshiba Pocket PC e570

Uses a 206MHz Intel StrongARM Processor, the fastest available for Pocket PC applications, and the newest version of Microsoft's powerful and popular Pocket PC operating system. The CPU and the provision of 64MB of DRAM assure high speed processing of software optimised for the Pocket PC OS, including Pocket versions of Microsoft Word, Excel, Outlook, Internet Explorer and the Windows Media Player. Data synchronisation and downloads are a snap thanks to the supplied USB base/charger.

**$1249.00** Websearch Code ...189226 — RentSmart $13.69 pw

## eBookMan 901 Traveller

Read at night using the backlight or listen to music through the built-in speaker or headphone jack. Look up information on where to stay and what to see. Stores up to ten 400 page novels. Music Player supporting MP3, Digital Voice Recorder and eBook Reader all in one. 8MB with 64MB Flash card slot.

**$275.00** Websearch Code ...FRA001

*eBookMan - the MultiMedia PDA...*
*carries your eNewspapers, reads books aloud, plays your favourite music files, synchronises to Microsoft Outlook, keeps you organised - even understands your handwriting. It's your Personal Digital Assistant!*

## TTQ-106 Pocket Speller & Thesaurus

- Ideal for Back to Business
- Half a million synonyms
- Phonetic spell corrector
- Built-in French translator
- Databank for names/phone numbers
- Advanced calculator.

**$62.00** Websearch Code ...189297

## eBookMan 911 Executive

16MB on-board memory upgradable with 64MB Flash cards. Built-in digital voice recorder. Listen to the latest voice books or music from your MP3 files while you drive, using the optional car adaptor. Music Player supporting MP3, Digital Voice Recorder and eBook Reader all in one. 64MB Flash card slot. 16MB on board. Backlight.

**$349.00** Websearch Code ....FRA002

## Rolodex Personal Digital Assistant

MS Outlook synchronisation (CD & Cable included)
Access all your Contacts and Schedules, input memos, to do lists using the stylus and pop up keyboard. Alarm, Local and World Clocks all on a large touch screen.
Password protection and Memory Dataguard for security. CD includes a bonus Spell checker and Language phrase book for downloading. 384k memory and removable protective lid.

**$89.00** Websearch Code ...189544

## PORTABLE DIGITAL ACCESSORIES

### MS Flight Simulator 2002

One of the most popular, realistic and detailed flight simulators on the market, used by actual student pilots. With new aircraft. Pro version also available.

**$89.00** Websearch Code ...MS5691

Microsoft

### Microsoft Age of Empires Collectors Edition

Includes full versions of ALL the games in the Age of Empire series.

**$109.00** Websearch Code ...MS5689

Microsoft

### Microsoft Train Simulator

Experience the excitement of trains on your PC. Take the controls from the engineer's cab with 6,000 tons of freight behind you and exciting challenges ahead.

**$99.00** Websearch Code ...130576

**COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!**

Kodak

• Featuring 2.2 megapixel resolution • 3X digital zoom and a convenient close-up mode • Share pictures over e-mail or for printing photo-quality prints up to 8"x10" • Comes ready to shoot with 8MB of internal memory • COMPACTFLASH expansion slot that lets you add additional memory • 1.8" LCD screen which lets you preview and review your shots • Win/Mac

**$549.00**
Websearch Code ....KOD087
RentSmart $6.02 pw

SONY

• 1.3 Mega Pixel Memory Stick Digital Still Cybershot Camera with ACCCSPW Kit
• Featuring 3x precision digital zoom, high speed auto focus • ISO sensitivity setting
• Recording mode is selectable from JPEG, TIFF, GIF animation and MPEG Movie
ACCCSPW Kit includes Rechargeable Battery, Battery Charger and Carry Case.

**$818.00**
Websearch Code.....SONY21
RentSmart $8.97pw

Kodak

• DX3600 offers 2.2 megapixel resolution • 6X zoom (2X optical, 3X digital) • (up to 18 x 24cm) on your inkjet printer • Built-in microphone/ speaker lets you capture and review video with audio right on the camera • Connect to a Computer or TV and see your videos on a big screen (cable included) • 8MB of internal memory • COMPACTFLASH expansion slot • The Camera Dock also quickly and automatically recharges your camera's battery pack.

**$799.00**
Websearch Code ....KOD091
RentSmart $8.76 pw

SONY

• 1.3 Megapixel Memory Stick Digital Still CyberShot Camera with ACCCSPW Kit • Designed as an easy-to-use point-and-shoot digital camera • 3x optical and 6x precision digital zoom • High speed auto focus • AF illuminator and ISO sensitivity • Recording mode is selectable from JPEG, TIFF, MPEG, text modes and clip motion.
ACCCSPW Kit includes Rechargeable Battery, Battery Charger and Carry Case.

**$935.00**
Websearch Code.....SONY20
RentSmart $10.25 pw

Kodak

• 3MP digital camera with the point and shoot simplicity • EasyShare DX3700 Digital Camera • 3.1 MP resolution for excellent picture quality up to 11" x 14" • Getting closer to the fun is easy with the 3x digital zoom • Realistic pictures up to 11" x 14" and never miss a shot with the internal picture memory!

**$799.00**
Websearch Code ....KOD093
RentSmart $8.76 pw

SONY

• 2.1 Mega Pixel Memory Stick Digital Still Cybershot Camera with ACCCSPW Kit • Increase of resolution to 2.1 Mega Pixels • Offers a 3x optical zoom lens • 6x digital zoom • MPEG Movie EX and ISO sensitivity setting • AF illuminator that allows positive focus in the dark.
ACCCSPW Kit includes Rechargeable Battery, Battery Charger and Carry Case.

**$1035.00**
Websearch Code.....SONY22
RentSmart $11.35 pw

Kodak

• 3.1MP resolution • prints up to 11" x 14" • 6X zoom (2X optical and 3X digital) • Set your own color mode, ISO, and lighting exposure settings • COMPACTFLASH Card • Optional telephoto, wide-angle, and up-close lens attachments • KODAK EasyShare Camera Dock • Place your DX3900 in the dock, touch the button, and pictures are automatically sent.

**$1099.00**
Websearch Code ....KOD092
RentSmart $12.05 pw

SONY

Digital8 (up to 500 lines), 700x/50x selectable digital zoom (25x Optical zoom), memory stick slot, USB terminal, 3.5" LCD monitor, analog/digital signal conversion, digital program editing, Electronic Super SteadyShot, Super NightShot, plus more!

**HOT PRICE!**
**WHILE STOCKS LAST.**

**$1699.00**
Websearch Code .....189538
RentSmart $18.62 pw

Kodak

• 1.3MP resolution for great prints up to 5" x 7". A 4X zoom (2X optical and 2X digital) • With 8MB of internal memory, you'll never miss a shot • MultiMediaCard/ Secure Digital memory (MMC/SD) expansion slot • Simply place your DX3215 in the dock, touch the button, and pictures are automatically sent to your computer ready for e-mailing and printing • The Camera Dock will also recharge your camera's battery pack.

**$459.00**
Websearch Code ....KOD090

Kodak

A $24.95
Websearch Code.....189300
B $15.95
Websearch Code.....189301
C $13.95
Websearch Code.....189563

Kodak Picture Paper



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## DIGITALS, SCAN, PRINT & FAX

## Jenoptik JD 3300 z3

Best Buy

The JD3300 z3 camera from Jenoptik offers exceptional quality, performance and value. Awarded **"BEST BUY"** by Which Camera? Digital (Oct.2001) who said the JD3300z3 "offers superb value for money" and is "probably the best value 3MP camera around".

Major features of this true 3.3 MegaPixel camera include a 3x optical aspherical zoom lens, 1.8" colour TFT LCD display, auto focus macro (close-up) facility, manual focusing, exposure compensation and video output (directly to TV/VCR).

Interfacing includes a Compact Flash expansion slot, USB support, MAC & PC compatibility. The camera is supplied complete with accessories, case, cables, batteries, image editing software and Jenoptik's exceptional **2-year replacement guarantee.**

**FREE** 32MB Compact Flash Card

**$985.00**
Websearch Code ....130942

## Jenoptik JD-4100z3

**New 4.1 Mega-Pixel Digital Still Camera**

Which Camera? Best Buy

This exceptional 4.1 Mega-Pixels digital camera offers enough resolution to do 8x10" quality photographic prints or even larger ink-jet prints.

With its 3x optical aspherical zoom lens, 1.8" colour TFT LCD display, auto focus macro (close-up) facility, manual focusing, exposure compensation and many more features, it certainly offer impressive value for money...and it looks smart too!

The JD4100z3 also offers video output so your images can be viewed directly on your TV. Interfacing includes a Compact Flash slot, USB support, MAC and PC compatibility. The camera is supplied complete with accessories, case, cables, batteries, image editing software and the exceptional Jenoptik **2-year replacement guarantee.**

**FREE** 64MB Compact Flash Card

**$1135.00**
Websearch Code ....130943

## Kodak DC3200 Digital Camera

The DC3200 Digital Camera with its 1.0 MP resolution makes great prints up to 5" x 7":

- DC3200's 2X digital zoom
- Internal Memory
- 2MB internal memory and COMPACTFLASH Card compatibility
- Preview and review your pictures with the built-in LCD screen.

While stocks last!

**$299.00**
Websearch Code ....KOD079

## Avision AV820C

### HIGH SPEED DOCUMENT SCANNERS

Avision's 820C is a quality colour document scanner, combining a flatbed and a built-in 50-page automatic document feeder. It's construction and design are far more robust than the typical add-on feeder for consumer flatbed scanners. The 820C also offers a high scanning speed of 20 pages per minute. The Avision 820C comes complete with a SCSI interface card, OCR software and Papercom document management software.

**$2449.00**
Websearch Code....PRO541

RentSmart $24.02 pw

## Microtek Artix 4000tf

MICROTEK's ARTIX 4000 sets a new standard for 35mm slide scanning. 4,000 dpi optical resolution enables high levels of enlargement.

- Dedicated slide scanner to get the best sharpness and detail from 35mm slides.
- Scans both negatives and SLIDES (positives), mounted or in strips. APS optional.
- Same user interface as Microtek flatbed scanners.
- Auto-focus, 1 pass, Ultra-fast.
- 3.8 dmax range.
- Firewire interface included.
- Win/Mac.

NEW FIREWIRE/USB MODEL

**$2299.00**
Websearch Code ....189296

RentSmart $18.62pw

## QuickLink OCR Pen

The Quicklink Pen will scan in up to 1000 pages of text, that can be quickly transferred to your PC, Palm Pilot or text enabled cellular phone.

**Features:**

- Capture printed data, transmit it to your mobile phone and fax it or send it as an SMS message
- Transfer printed tables, schedules and charts directly to any spreadsheet application including MS Excel.

QuickLink

**$349.00**
Websearch Code ....WI2001

## Avision @V2000 NetDeliver

**@V2000 Multi-Function Network Scanner...**
**... scan to printer, fax, e-mail.**

Connected to an Ethernet network and an SMTP server, the @V2000 allows you to transmit documents via **e-mail.** With a touch of the e-mail button and the selection of your recipient's e-mail address, the documents are scanned into an image file, then transmitted to remote recipient(s) in TIFF, JPEG or PDF format.

Connected to a printer, the @V2000 **turns your printer into a digital copier.** With an intuitive control panel (and detachable compact keyboard), making digital copies becomes fast and very easy.

A built-in **fax** modem enables direct fax transmission.

The @V2000 can be administered from it's own LCD display & keyboard, or using your web browser (e.g. Internet Explorer). Documents can be scanned on the A4 flatbed or using the built-in automatic document feeder.

**$2775.00**
Websearch Code....PRO542

RentSmart $27.22 pw

## Compact Flash Memory

"Top quality Jenoptik brand - suits all brands of Digital Cameras and PDAs using the Compact Flash standard".

| | |
|---|---|
| 64MB | **$108.00** Websearch Code ....189291 |
| 128MB | **$165.00** Websearch Code ....189292 |
| 256MB | **$345.00** Websearch Code ....189293 |

**COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!**

## CD & DVD WRITERS

# THE POWER TO BURN

### Pinnacle Express

- Capture your video from your DV camcorder
- Create CDs or DVDs for your DVD player
- Detects each scene on your DV tape and create an interactive menu that can be customized
- up to one hour onto a CD at VHS quality (VCD), 1/2 Hour at SVHS quality (SVCD) or 15 minutes at DVD quality (mini DVD onto CD)
- Compatible with most DVD players (all JVCs and Philips are 100% certified) (incompatible with early DVD players that does not support CDR Media)
- Requires a CDR/W or DVD R/W installed

HOT!

**$129.00**
Websearch Code ....PIN04

### Nero 5

HOT!

In only 3 easy steps, Nero allows you to back-up partitions or entire hard drives onto several CD's. Using a sector based system, any operating system or file system can be backed-up and restored fully functional and configured. Appreciate the Wizard's speedand experience the magic of CD recording without worrying about the details. Nero comes with CD labels and label applicator. Design, print and apply your own CD labels, booklets and inlay cards.

HOT!

**$135.00**
Websearch Code....NER001

### Pioneer DVR-A03 DVD-R/RW & CD-R/RW Drive

Writes DVD-R (1x and 2x), DVD-RW (1x), CD-R (4x and 8x), CD-RW (4x).
Reads DVD-ROM, DVD-Video, DVD-R, DVD-RW, CD-ROM, CD-R, CD-RW, CD-TEXT, Photo CD, Audio CD. Disc-at-once and incremental write.
Re-Recordable. Supports 9.4G Double Sided DVD-R Media. Includes 1x DVD-R Media, 1x DVD-RW Media, 5x CD-R Media, SONIC MyDVD Authoring Software, PrimoDVD DVD/CD Writing Software, CyberLink PowerDVD 3 and STAEDTLER LUMOCOLOR pen

HOT!

| ATAPI | FireWire (Win) |
|---|---|
| **$1045.00** | **$1225.00** |
| Websearch Code ..189577 | Websearch Code ...189578 |
| RentSmart $11.45 pw | RentSmart $15.42 pw |

### LaCie DVD-RAM & DVD-R Drives

**A set of professional solutions to store, backup and archive up to 4.7GB of videos and documents. With DVD-R, create DVD-ROM data discs or DVD-Video discs compatible with most home DVD players. Includes the convenience of the FireWire interface. PC software includes Sonic MyDVD and DVDit!, CyberLink PowerDVD and PrimoDVD. Mac software includes Toast 5 Lite, Retrospect, No DVD-R software. Includes all cables and software for Mac and for Win98SE, ME and Win2000. 1 year warranty.**

#### LaCie 9.4GB DVD-RAM/4.7GB DVD-R FireWire StudioDrive

Win/Mac (Mac OS9.x only)
Record data on DVD-RAM discs or DVD-R General Use media, depending the way you want the files to be stored. Record only one time on DVD-R disc, write and re-write on DVD-RAM discs.

HOT!

**$1195.00**
Websearch Code.....JI098
RentSmart $13.10 pw

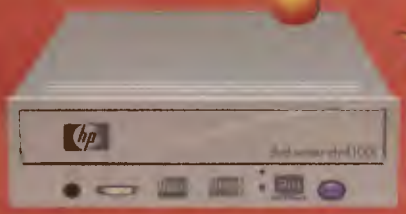
#### LaCie SuperDrive DVD-RW & CD-RW FireWire StudioDrive Win/Mac

A unique combination of two optical technologies: DVD-R/RW for archiving huge amount of data and creating DVD Video discs, CD-RW for local back-up or audio compilation.

**$1345.00**
Websearch Code .LACO21
RentSmart $14.74 pw

### HP DVD-Writer DVD100i

Using DVD-RW technology, this HP DVD-Writer takes home movie making and data storage to another level. It is optimised for both video and data applications. With 4.7GB capacity and fast data access, this DVD-Writer allows the customer to store up to 3 hours of video on one DVD-RW disc. DVD 2.4x rewrite, 8x read, CD 12x write, 10x rewrite, 32x read. EIDE (ATAPI). Win98, ME, 2000. 1 year exchange warranty.



HOT!

**$1449.00**
Websearch Code...130939
RentSmart $15.88 pw

### Sony Internal 16x10x40x IDE CD-RW

**Retail Kit CRX161182U**

Features 16x Writing, 10x Rewriting, 40x Max Reading, CAV Operation, supports all major recording/playback formats, convenient IDE interfacing, supports Digital Audio Extraction, Burnproof Technology, MPC-3 and Orange Book Compliant. Retail kit with internal drive, cables, media and mounting screws. Supplied with software compatible with Win 95, 98, NT4, 2000 and ME.

HOT!

**$279.00**
Websearch Code...SONY01

### Sony Internal 12x8x32x SCSI

**CD-RW Retail Kit CRX160SBK**

Incorporates the latest High-Speed R and RW technology and features performance SCSI interfacing. Comes complete with cables, media and Adaptec software (requires SCSI card). Features 12x recording, 32x max playback, high speed re-writing, accelerated audio mode, large 4MB buffer, powered tray loading, supports all major formats and media types.

HOT!

**$429.00**
Websearch Code....SONY82

### Sony External 1394 12x8x32x CD-RW Retail Kit

**CRX1600LEK**

This external drive combines 12x burning with the latest high performance interfacing. Supplied as a kit, it comes complete with cables, media and Adaptec software for Mac and Windows. Features IEEE1394 interface, 32x Max playback, reads all major formats, supports high speed re-writing, accelerated audio modes, CAV Operation, large buffer, plus more.

HOT!

**$575.00**
Websearch Code....SONY89
RentSmart $6.30 pw



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Online prices may vary from those shown due to daily fluctuations and online discounts

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Verisign Secure Site

# THE POWER TO BURN

CD & DVD WRITERS

## LaCie Pocket CD-RW 8x8x24x

- Read and write CDs anywhere
- Burnproof USB1.1/2 & FastFireWire (IEEE1394) performance, USB convenience.
- Hot-pluggable: easily swap among Macs and PCs
- Unique design: stylish, ultra-portable, shock absorbent with a handy cable groove
- Autonomous: no need for an AC adapter with self-powered FireWire bus

**$649.00**
Websearch Code ...130248
RentSmart $7.11 pw

## LaCie External CD-RW for Mac & PC

**USB & Firewire in new StudioDrive casing!**

It can be connected to most computers equipped with a USB or Firewire interface. Users of Mac OS/OSX or Windows 98SE/2000/ME/XP will benefit from the convenience of the plug & play features, including the freedom to hot-plug the drive while the computer is running, no rebooting is required. Comes complete with cables and software, Toast 4.1 for Mac, Easy CD Creator for Windows.

16xW/10xRW/40xR USB 1.1/2 — **$445.00** Websearch Code ....LAC028

16x W/ 10x RW/ 40x R **B/proof** Ext. FastFireWire & USB1.1/2 — **$499.00** Websearch Code ....111134

24x W/ 10x RW/ 40x R **B/proof** Ext. FastFireWire & USB1.1/2 — **$545.00** Websearch Code ....LAC027

RentSmart $5.97 pw

## Predator 24x10x40x

External USB 2.0 CD-RW drive boasts higher speeds due to higher throughput of USB 2.0. This drive is also compatible with USB 1.1, which limits the drive speeds to 4x4x6. It includes all the hardware and industry-leading software you need to easily and very quickly burn CDs. Comes with Iomega HotBurn CD mastering software, MusicMatch Jukebox, and Adobe ActiveShare for PC. Product also includes USB data cable, audio cable, external power supply, one CD-R disc, and quick install manual.

**Note:** This product does not include a hi-speed USB2.0 card necessary to achieve full 24x10x40 speeds. This card for the computer must be purchased separately or comes as part of the original computer hardware.

**$549.00**
Websearch Code ..189323

## Roxio Toast 5 Titanium For Mac

Creates music, data & video CDs. Toast Includes: CD-ROM with CD Spin Doctor, Qdesign MVP, iView Multimedia, Magic Mouse Discus, Toast Audio Extractor, Roxio Bonus CD with MP3 songs, video clips and 4 short films. User Guide, cable to connect a computer to a stereo system's Lineout.

**$179.00**
Websearch Code ..ATOAST

## Roxio Easy CD Creator 5 Platinum

Software that goes way beyond the software that came with your CD-Recorder. Now it's easier than ever to create music, photo, video, and data CDs. Access music on the Internet. Fine tune your music tracks. Edit and enhance photos and videos with a pro's touch. Includes: CD with Sound Stream 2, DirectCD, Take Two, Spin Doctor, CD Copier, ideoI-mpression, Photo Album, Video Postcard, VideoCD Creator, CD Label Creator, Sound Editor, Session Selector, Web CheckUp.

**$125.00**
Websearch Code ..EASYCD

## Sony Port 20/8/24/8 USB Combo CD-RW Kit CRX85UA2

Portable 20x burner, 24x CD/ 8x DVD player. Supplied as a retail kit with software, interface cable and 110/240V power supply. Compatible USB1 and 2. Features 20x Max Recording, PowerBurn Technology, 8x Rewriting, 24x Max CD Playback, 8x Max DVD Playback, USB 2 Interfacing, Mac and Win compatible, Windows XP compatible.

**$775.00**
Websearch Code ...189576
RentSmart $8.50 pw

## hp CD 16ri series

- internal EIDE 16x10x40 cd-rewritable drive with with HP's Buffer Under Run Prevention technology
- includes powerful and easy-to-use CD creation and music mixing software
- write up to 700 MB to a CD in about 6 minutes

**$285.00**
Websearch Code....HPP150

## hp CD-Writer Drive cd4ce External

4X write, 4X write, 6X read with USB 1.1 interface. 2MB buffer, 125ms random access time, 1.5MB/sec burst transfer rate. Includes HP CD Creation software, MusicMatch Jukebox, ArcSoft PhotoCenter and ArcSoft Video Impression.

**$389.00**
Websearch Code ....189258

**COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!**

COMMUNICATIONS

# Network Interface Adaptors

**Connecting to any Ethernet Network has never been easier!**

Logging on to a Local Area Network (LAN) has never been quicker or easier with this range of Quality Plug & Play Network adaptors from NetComm. Whether you're a Desktop, Notebook or PDA user these network adaptors combine the latest technology to deliver superior performance no matter what the PC platform.

NP1100 - High performance auto-sensing 32bit 10/100Mbps Fast Ethernet PCI LAN adaptor featuring Wake-On-LAN function.

**$29.00**
Websearch Code ....NET234

NP1200 - 10/100Mbps Fast Ethernet 32bit PC Card with TruConnect technology, direct LAN connection, no dongle required.

CALL FOR PRICING

NP1010 - USB LAN Key 10/100Mbps Fast Ethernet adaptor connects PC's to LAN via a USB port with no need to reboot.

**$79.00**
Websearch Code ....NET235

NP1300 - Compact Flash 10Base-T Ethernet adaptor for PDA's and Notebooks includes PCMCIA adaptor.

CALL FOR PRICING

NetComm®

*NETWORKING & COMMUNICATIONS CONVERGED*

## NETCOMM Smart & ProSwitch's

**The High-Speed Network Switch your business needs!**

Creating or boosting the performance of a network is as simple as choosing a NetComm Smart or ProSwitch over a standard network hub. A Smart or ProSwitch is easy to install, it configures itself, and it's at home in any network environment, TCP/IP, Windows or AppleTalk.

**How does NetComm's Smart and ProSwitch do this?**

By utilising Intelligent Networking technology, NetComm's Smart or ProSwitch's pinpoints the exact recipient of a packet of data and delivers that data directly to it, whereas an ordinary network hub simply sprays data to everyone. The result is less network traffic clogging up the system; higher data transfer speeds and fewer network errors. Simply put, NetComm's Switch's directly connect PCs to PCs, and PCs to network peripherals such as Print Servers and NAS units, ensuring your network is operating efficiently and your staff get their work completed faster.

**Easy to Install and use!**

NetComm's Smart or ProSwitch is so smart it's a pleasure to install. And, once installed, you never need approach it again. NetComm's Smart and ProSwitch's have been designed to be a full Plug & Play solution with quick and simple installation. Its auto-sensing 10 Base-T, and 100 Base-TX design means it will adjust itself to your network system and conditions without the need for user intervention.

NP2005 - 5 Port 10/100Mbps Auto-sensing Network SmartSwitch, Intelligent 'Store & Forward Technology', Durable mini metal case, external plug-pack.

**$135.00**
Websearch Code ....NET243

NP2008 - 8 Port 10/100Mbps Auto-sensing Network Smart Switch, Intelligent 'Store & Forward Technology', Durable mini metal case, external plug-pack.

**$195.00**
Websearch Code ....NET242

NP2080 - 8 Port 10/100Mbps Auto-sensing High-Performance Network ProSwitch, Intelligent 'Store & Forward Technology', Internal 240volt power supply.

**$219.00**
Websearch Code ....NET241

## NAS-1000 Disk Server Series.

**Easily add Gigabytes of Storage to your network.**

Now you can add gigabytes of accessible, fast, hard-disk-drive storage to your network, without the cost, space, set-up and maintenance hassles of a fully-fledged file server. Ideal for small to medium business or corporate departments, NetComm's NAS-1000 with its easy-to-use configuration wizard and in-built print server allows you to set-up and access network file storage and share a printer in minutes.

NetComm's NAS-1000 family of compact and affordable Network Attached Storage (NAS) is available in a range of sizes to suit the storage needs of today's networks, as and where you need it. The only decision you need to make is how and where to use it.

40GB, 60GB and 80GB also available *call for prices.*

20GB
**$1235.00**
Websearch Code ....NET244

## Internet Gateway/Router/ Firewall/Hub

**Securely interconnect your Computers to the Internet!**

NetComm's SmartAccess and Smart i-Share enables a small-to-medium sized business, corporate departments or home users to securely Interconnect multiple computers to the Internet.

Whether you're connecting to the Internet for the first time or looking for a cost-effective and safe VPN solution, SmartAccess and Smart I-Share will meet your needs.

SmartAccess and Smart I-Share securely and simply interconnects your system to the Internet through a robust embedded firewall and 4 port hub. Shielded behind a NAT gateway, your computers are protected from outside threats. SmartAccess and Smart I-Share filter and inspect every packet of data to prevent unauthorized Internet applications from accessing your network.

Your entire network can logon to the Internet using only one ISP account through the one modem, Cable, DSL or ISDN line. Sharing eliminates the need for additional hardware and services such as modem, communication line and ISP charge for each individual user.

SM4300 - SmartAccess Broadband/Cable Internet Gateway featuring Router, Firewall, WAN & Serial ports plus 4-port 10Base-T network hub.

**$349.00**
Websearch Code ....NET231

SM4200 - Smart-I-Share 56 Internet sharing Gateway featuring Router, Firewall, Built-in 56K V.90 Modem, Serial port plus 4-port 10Base-T network hub.

**$455.00**
Websearch Code ....NET217

## Serial Data/Fax & Voice Desktop Modems

**Bringing the World to you faster than ever before!**

NetComm is bringing the world to you faster than ever before with this latest range of Data/Fax and Voice modems. Not only are NetComm's modems super- fast Internet surfing machines; they are also a complete communications solution for your home and office.

Using the latest technology, NetComm's modems ensure the highest level of compatibility with the widest range of Internet Service Providers (ISPs).

NetComm's modems turn your PC into a state-of-the-art communications centre with their integrated Group 3, Class 1 fax solution. The fax software enables you to send and receive faxes from any Windows application. You can set up a Fax-On-Demand facility for customers to call and get standard documents such as brochures faxed to them without lifting a finger.

BD3064S - MyModem 56K V.90 Data/Fax/Voice modem, Leased line support, Digital Line protection, Sync/Async data transfer.

**$205.00**
Websearch Code ....NET143

BD40655 - Wave V.90, 56Kbps Speaker Phone Data/Fax/Voice modem with hardware volume control, in-built speaker.

CALL FOR PRICING

AM5693 - Roadster V.90, 56Kbps Data/Fax/Voice modem with in-built speaker, headphone and microphone sockets.

**$179.00**
Websearch Code ....NET207

SM5690 - SmartModem 56K V.90 Professional Data/Fax/Voice Modem, 64Bit Encryption, Sync/Async Data Transfer.

**$415.00**
Websearch Code ....189560



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## LOGITECH

### Mouseman Dual Optical

This advanced mouse employs two optical sensors 800 dpi each! For high-performance, maximum precision, and smoother scrolling. Perfect for use on hard-to-read surfaces such as wood. Comes with custom scroll wheel and patented WebWheel software.

**$85.00**
Websearch Code....LOG293

### Cordless Mouse Special Edition

Change your mouse color to fit your mood. Choose among four stunning hues: Vivid Blue, Midnight Dusk, Signal Red, or Amber Yellow. Get total cordless freedom. Digital radio technology ensures that your mouse works even when not pointed directly at your computer. Work for months on included batteries. Three-year warranty.

**$89.00**
Websearch Code....LOG292

### Marble Mouse

Logitech Marble Mouse fits right and left hands like a mouse yet works like a trackball. Save space while reducing hand and wrist movement. Patented Marble optical technology provides superior precision and smooth motion without regular cleaning. Marble Mouse works with PC's and USB-port Macintosh systems. Three-year warranty.

**$79.00**
Websearch Code ....189287

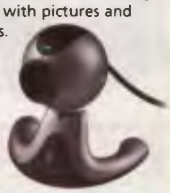
### Cordless TrackMan Wheel

Experience true freedom. Place this comfortable optical trackball where you choose. Its digital radio technology works in a two-metre range without being pointed at the computer. For Windows 2000/98/95/NT 4.0 & Mac OS 8.5. Supports USB and PS/2 interfaces

**$119.00**
Websearch Code....LOG002

### Quickcam Pro 3000 USB

QuickCam Pro 3000 takes stunning pictures and videos with a true 640x480 (VGA) resolution. Use its built in microphone to make live video calls to friends and family over the Internet and send exciting email with pictures and videos.



**$215.00**
Websearch Code....LOG119

### TrackMan Live

TrackMan Live gives you cordless freedom for more interactive presentations. Digital radio technology for maximum reliability. No need to point the device at the computer, direct line of sight not necessary. Fits comfortably in your hand. Runs on two AAA batteries.

**$295.00**
Websearch Code....LOG125

### Internet Navigator Keyboard

Navigate the web in maximum comfort. The innovative design features Zero Degree Tilt - the lowest profile keyframe available - to make every keystroke easy. Multimedia controls for your favorite MP3s, DVDs and CDs. Seamlessly connect and navigate the web with iTouch buttons and the iNav scroll wheel. Five-year warranty.

**$69.00**
Websearch Code....LOG294

### Cordless Freedom Optical

The ultimate cordless keyboard and optical mouse provides less clutter, more style, and more freedom. A revolutionary cordless optical mouse that runs on almost any surface. Internet navigation and multimedia control at your fingertips. Ultra-flat, zero degree tilt design for increased comfort. True cordless reliability.

**$214.00**
Websearch Code....LOG129

### Cordless Freedom Pro

Without cords, place this keyboard and mouse wherever they are comfortable for you. The curved keyboard with split key layout enhances typing control. The contoured mouse provides maximum comfort and control. USB and 6- pin keyboard ports, USB and PS/2 mouse ports. For Windows 2000/98/95/NT 4.0.

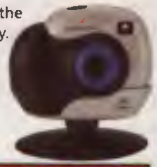
**$210.00**
Websearch Code....LOG108

### ClickSmart 310

Photo Memories. Capture up to 160 pictures. Transfer them easily to the computer to send photo-mail, create web albums and more.

Video Fun. Even record short video clips and share your good times.

Video Calls. Chat face to face with friends and family from across the street or across the country.



**$169.00**
Websearch Code ....189284

### QuickCam Express

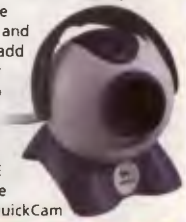
QuickCam Express is an Internet video camera offering affordable and simple video and still image Internet communication.

- USB port connector for instant connectivity
- Larger Focus Ring for greater ease of use
- Custom camera base for precision camera positioning
- Up to 30 frames per second video frame rate - TV quality smooth motion video
- Cross platform video/still image E-Mail compatibility
- Software included

**$95.00**
Websearch Code....LOG101

### QuickCam Web

Featuring an integrated microphone and an excellent assortment of easy-to-use software the redesigned QuickCam Web has everything you need. Capture video, create web pages, make video calls over the Internet, video monitor, and more. Now anyone can add exciting pictures to their e-mail and send them to friends, with no special software or camera needed by the recipient. Broadcast LIVE video and audio over the Internet. The Logitech QuickCam Web is the perfect Internet Video Camera for everyone.



**$169.00**
Websearch Code....LOG107

### ClickSmart 510

Shoot it. Save captivating video or keepsake photos with megapixel impact to removable memory cards. Then download it all effortlessly with the new QuickSync system. Its lighted memory button tells you when you have new shots ready to transfer.

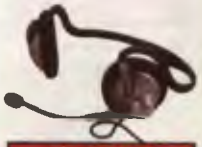
Share It. Easily send photos and video via e-mail. Post them on your web site. Or set up your own personal web album with Spotlife.com. Includes built-in flash plus software for editing video and photos. Show it. Make live video calls with the built-in microphone. You can even set up your own web cam.

**$335.00**
Websearch Code ....130998

### Labtec Axis 002

Behind-the-Head Stereo Headset with Boom Microphone.

- Ideal for Voice-Ove IP Applications
- Rich Stereo Sound for Gaming, Music and Chat
- New microNCAT-2 (superscript: TM) Noise Cancelling Microphone for speech recognition
- Mute Switch and Volume Control



**$55.00**
Websearch Code ....189285

### MouseMan Traveler

Logitech's stylish, compact mouse is specifically designed for notebook use. Travel anywhere with it! The high-performance optical sensor offers smoother scrolling and greater accuracy, and there is no ball to clean.

MouseMan Traveler's innovative design fits comfortably in either hand.

Includes a protective carrying case.
Five-year guarantee.

**$109.00**
Websearch Code ....189286

### Cordless MouseMan Optical

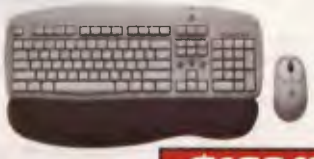
Discover the outstanding cordless optical mouse for PC and Macintosh!

There's no cord to limit your movement and it's optical so that you can use it on any surface. Logitech's patented digital radio technology works in a two-meter (six-foot) range of your computer. 5-year guarantee.

**$129.00**
Websearch Code ....189324

### Cordless Freedom iTouch

Enjoy complete control and reliable performance, without cords that catch or tangle. iTouch lets you access the Internet, open e-mail, search, or launch applications with one touch of a key. WebWheel provides quick Web navigation and browser control with the mouse Scroll Wheel. Made by the cordless experts. 3-year warranty.



**$169.00**
Websearch Code ....130951

**COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!**

## MONITORS SWANN

### SWANNSMART USB MODEM
**56K V.90 External Modem**
Bus powered - no need for extra power supply cables.
Easy plug-and-play installation.

**$105.00**
Websearch Code ..SWA020

### SWANN OPTI-PRO
**USB Optical Trackball Scroller Mouse.**
Precise optical sensor for an accurate smooth gliding motion.

**$49.00**
Websearch Code ....189594

### SWANN MULTI-KEYPAD
**USB Multi Function Numeric Keypad.**
Programmable handy multimedia hot keys to access email, the internet, control speaker volume and more. Light and compact great for travelling.

**$45.00**
Websearch Code ....189604

### ViewSonic E70
The 17" ViewSonic E70 is the right choice for SOHO (small office/home office) users and students who are ready to upgrade their smaller monitor... at an affordable price. With its 0.24mm horizontal dot pitch, crisp images and brilliant colours, this monitor is ideal for a wide range of applications from word processing, spreadsheets and light graphics to surfing the Internet. It even offers OnView™ controls, which allow the user to make screen adjustments via an on-screen menu.

**$349.00**
Websearch Code.....VIE002

### ViewSonic E53
Quality that is truly affordable... the ViewSonic E53 colour monitor is exceptional value with features you would only expect from more expensive models. This 15" display is packed with advanced features such as OnView™ controls for easy screen adjustments and ViewMatch™ colours for screen-to-print colour matching. Its anti-static, anti-glare screen treatment helps reduce glare.

**$285.00**
Websearch Code.....VIE005

### ViewSonic VE150
In offices where space conservation is a concern but strikingly rich colour is essential, the new ViewSonic VE150 flat panel monitor is an outstanding solution. The 15" TFT active matrix display gives users the same approximate viewing area as a 17" CRT monitor while occupying only 25% of the desk area. This state-of-the-art LCD supports 16.7 million colours at resolutions up to 1024 x 768, with low power demands that produce virtually no emissions.

**$875.00**
Websearch Code.....VIE004

### LG 17" 775FT Flatron Monitor
- Triple Flat screen (100% flat inside and out)
- Viewable Screen Size 16.01"
- Flat Tension Mask
- Dynamic Focus
- Maximum Resolution: 1280x1024 @ 60Hz
- Plug & Play: DDC 2B
- OSD Control
- TCO-99, EPA Energy Star, GOST CE, TUV-GS Compliant

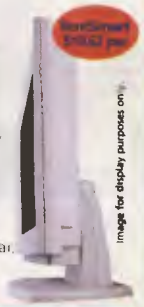
Warranty: 3 years

**$469.00**
Websearch Code ....189592

### LG SW77M 17" Multimedia Studio Works Monitor
- 17" (13.8" Viewable) FST
- 0.28mm Dot pitch
- Anti-Reflective, Anti-Static, Anti-Glare face treatment
- Digital Microprocessor OSD control
- Maximum res. 1280x1024
- Digital Microprocessor OSD control
- EPA Energy Star Compliant
- NUTEK compliant
- Warranty: 3 years

**$449.00**
Websearch Code ....LGE003

### LG SW575LE 15" LCD Monitor
***Features***
15" LCD Flatron Monitor
Resolution: 1024x768 @75Hz
Brightness: 250 cd/m2 (Typical)
Contrast Ratio: 300:1
Video Signal Type: RGB analog, Separate H/V
Input Connector: 15pin D-Sub
Plug & Play: DDC 2B
OCD Control
TCO-99,TUV-GS,VCCI,Energy Star,
GOST CE Compliant
Dimensions (WxDxH): 394x162x379mm (Net)
Weight: 5.1kg (Net)




**$969.00**
Websearch Code ....189340

### SWANN FIREWIRE PRO DV KIT
**Everything you need for easy and fun digital video editing**
- Captures full screen video from your camera to your computer's hard drive with transfer speeds of up to 400Mbps
- Complete kit with FireWire PCI Card, comprehensive software, bonus headset and FireWire cable
- 1 year "Hassle Free" warranty

Now Includes Ulead 5 DVD Edition

**$179.00**
Websearch Code ..SWA018

### SWANN USB MULTI-HUB
**USB 4-Port Hub**
- Easy and convenient access to USB ports
- Supports bus-powered and self-powered USB peripherals (including printers, scanners, modems, keyboards and mice)
- Allows Hot Swapping
- PC & Mac compatible
- 1 year "Hassle Free" warranty

Swann

**$55.00**
Websearch Code ....130502

### SWANN SPEED DEMON
**56K V.90 External Voice/Fax/Data Modem**
- New graphite version!
- Great value for money
- Bonus Telstra 100 hours Internet Access CD
- Drivers and application CD included
- 1 year "Hassle Free" warranty

Swann

**$99.00**
Websearch Code ....189213

### SWANN FIRWIRE STARTER KIT
- Captures full screen video from your camera to your computer's hard drive with transfer speeds of up to 400Mbps
- Bundled with the latest version of Ulead 5 VideoStudio DVD Edition.

Make your own VCD, SVCD or DVD home movies
- Enhances the value of your DV Camera
- 1 year "Hassle Free" warranty

Now Includes Ulead 5 DVD Edition

**$118.00**
Websearch Code ....189603

### SWANNFIRE CARDBUS
**FireWire PCMCIA Card**
- FireWire solution for laptops
- Data transfer speeds of up to 400Mbps
- Suitable for laptop users and travelers
- Allows hot swapping
- 1 year "Hassle Free" warranty

Swann

**$139.00**
Websearch Code ....130721

### SWANN SPYCAM
**Miniature Video Camera**
- Low cost security solution
- Tiny size for undetected surveillance
- Easy installation
- Connects to your TV or VCR
- 1 year "Hassle Free" warranty

**$125.00**
Websearch Code ....189593



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Website .....www.iswh.com.au
Email .....contacts@iswh.com.au

VISA

MONITORS

## AG Neovo TFT LCD Flat Panel Displays

Only a TFT Flat Panel Display from AG Neovo features the Crystal Optical Filter, both enhancing viewing angles up to 160 degrees and protecting the LCD panel from accidental damage, ensuring you get many years of quality use from your investment.

### AG Neovo F-15 TFT LCD Display

Looking for the best image quality and style on a conservative budget, you can't go past the AG Neovo F-15 15" TFT LCD Display. With a bright 15" XGA TFT LCD screen and fantastic image quality the F-15 provides sharp images and accurate colour representation. The Neovo F-15 is the perfect display when upgrading your existing CRT monitor. *** Does not have Neovo Crystal Optical Filter**

- 15" viewable XGA TFT active matrix LCD screen
- 300:1 Contrast Ratio
- 16.7 Million Colours 18-bit interface
- 140° viewing angles
- OSD menu with one touch auto adjustment
- 3 yr warranty
- Win/Mac

AG neovo **$1398.00** Websearch Code .....189311

### AG Neovo S-15V TFT Flat Panel Display

Put the highest quality and styling on your desk with this 15" Neovo TFT Display. The S-15V can be connected to a multitude of devices. With XGA, Composite and S-video inputs you can connect to a DVD, VCR, Camera or even the optional Neovo TV Tuner with remote control.

- **PC Authority Recommended Award Sept 2001**
- 15" viewable XGA TFT active matrix LCD screen
- 300:1 Contrast Ratio
- 16.7 Million Colours 18-bit interface
- 160° viewing angles
- S-Video & Composite inputs
- OSD menu with one touch auto adjustment
- Neo V Technology (Crystal Optical Filter)
- 3 yr warranty
- Win/Mac

AG neovo **$1878.00** Websearch Code .....189312

### AG Neovo M-15V TFT Flat Panel Display

This 15" TFT LCD Display from AG Neovo provides full multimedia capabilities with XGA, S-Video & Composite inputs, stereo speakers and a 4 port USB hub. With Sharp images and accurate colour representation, the Neovo M-15V is your best choice for a multimedia display.

- 15" viewable XGA TFT active matrix LCD screen
- 300:1 Contrast Ratio
- 16.7 Million Colours 18-bit interface
- 160° viewing angles
- S-Video & Composite inputs
- Stereo Speakers with Audio In/Out
- OSD menu with one touch auto adjustment
- Neo V Technology (Crystal Optical Filter)
- 3 yr warranty
- Win/Mac

AG neovo **$2028.00** Websearch Code .....189313

### AG Neovo X-174 TFT Flat Panel Display

The AG Neovo X-174 Display provides a generous 17.4" viewable XGA TFT active matrix LCD screen with the highest image quality and styling. Only Neovo have a Crystal Optical filter which will protect your display and your investment from accidental damage to the LCD membrane. With sharp images and accurate colour representation, the Neovo X-174 is the perfect partner for high quality crisp images and sharp text.

- **Awarded APC Best Display of 2001 - Nov 2001**
- 17.4" viewable XGA TFT active matrix LCD screen
- 400:1 Contrast Ratio
- 16.7 Million Colours 24-bit interface
- 160° viewing angles
- S-Video & Composite inputs
- DVI-I (digital interface)
- OSD menu with one touch auto adjustment
- Neo V Technology (Crystal Optical Filter)
- 3 yr warranty
- Win/Mac

AG neovo **$3468.00** Websearch Code .....189314

### AG Neovo S-18 TFT Flat Panel Display

When quality, performance and price are your only concerns, the S-18 from AG Neovo has it all. Connect via XGA, Composite or S-Video, or for true digital graphics the S-18 features DV/I connectivity. The AG Neovo S-18 Display provides an enormous 18" viewable XGA TFT active matrix LCD screen with the highest of image quality and styling. With sharp images and accurate colour representation the Neovo S-18 is the perfect TFT display for current 20"/21" CRT users.

- 18" viewable XGA TFT active matrix LCD screen
- 300:1 Contrast Ratio
- 16.7 Million Colours 24-bit interface
- 160° viewing angles
- S-Video & Composite inputs
- DVI-I (digital interface)
- OSD menu with one touch auto adjustment
- Neo V Technology (Crystal Optical Filter)
- 3 yr warranty
- Win/Mac

AG neovo **$3998.00** Websearch Code .....189315

### Wireless RF Neovo Keyboard & Mouse

AG neovo **$348.00** Websearch Code ....189319

### Wall Mount Bracket

AG neovo **$89.00** Websearch Code ....189316

### External TV Tuner Frame with Remote Control

AG neovo **$398.00** Websearch Code ....189317

### Wall/Desk mount ARM with Torsion Control

AG neovo **$628.00** Websearch Code ....189318

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# SOFTWARE WAREHOUSE

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## Toshiba Satellite Series

Providing an attractively priced, fully comprehensive notebook, ideal for small business or the home office, Satellite is fully equipped to help you power through your working day. With cutting edge technology and more power than you'll probably ever use, Satellite will become indispensable as your working companion. The multi-award winning Satellite Series continues to provide the business person who seeks value with all the power and functionality required for their day to day computing tasks. With a complete new lineup, the Satellite range now offers improved expansion capabilities, simpler user operation, the latest visual and sound technologies, as well as a great new look and feel

*Model 1800 shown*

**Toshiba Satellite Series 1800/C900 (XP Home)**

| | |
|---|---|
| **Processor:** | Celeron 900MHz |
| **Cache:** | 128KB integrated L2 |
| **Memory:** | 128MB SDRAM, expandable to 512MB |
| **Storage:** | Triple spindle design 15GB HDD, 24X CD-ROM & 3.5" 1.44MB FDD |
| **Graphics:** | Cyber Aladdin-T with 16MB UMA shared memory & AGP 4X |
| **Display:** | 13.3" colour active matrix TFT display |
| **Software:** | Microsoft Windows XP Home |
| **Comms:** | Integrated international 56K V.90 data + fax modem |
| **Warranty:** | 1 year parts and labour |

**$2185.00**
Websearch Code....TOSH95
RentSmart $23.95 pw

**1800/PIII 1GHz (XP Home)**

| | |
|---|---|
| **Processor:** | Pentium III 1GHz |
| **Cache:** | 256KB integrated L2 |
| **Memory:** | 128MB SDRAM, expandable to 512MB |
| **Storage:** | Triple spindle design 20GB HDD, 8X DVD-ROM & 3.5" 1.44MB FDD |
| **Graphics:** | Cyber Aladdin-T with 16MB UMA shared memory & AGP 4X |
| **Display:** | 14.1" colour active matrix TFT |
| **Software:** | Microsoft Windows XP Home |
| **Comms:** | Integrated 56K V.90 data + fax modem, 10/100 Intel Ethernet |
| **Warranty:** | 1 year parts and labour |

**$3260.00**
Websearch Code ....189615
RentSmart $31.97 pw

## Toshiba Satellite Pro Series

This is the perfect, no compromise solution for business professionals. Satellite Pro is a feature driven notebook, packed with the latest technology. When your multimedia presentations have to be impressive. When your working environment extends beyond your office walls. Satellite Pro is the performance notebook for high performing individuals with a range of benefits such as:

- Simple expansion to connect to desktop based peripherals including those based on infrared, USB and CardBus systems
- Fantastic mobile multimedia performance with the graphics capabilities, sound processors and integrated speakers

**Toshiba Satellite Pro Series TE2000/PIII 1GHZ (Win98)**

| | |
|---|---|
| **Processor:** | Mobile Intel PIII 1GHz |
| **Cache:** | 512KB cache memory, 133MHz system bus |
| **Memory:** | 128MB PC133 SDRAM expandable to 512MB |
| **Storage:** | IDE 20GB HDD, EIDE 8x DVD-ROM, Ext. 1.44MB FDD |
| **Graphics:** | 128 Cyber Aladin-T Graphics Controller |
| **Multimedia:** | M1535B PCI bus Sound chip, 16 bit stereo, integrated speakers |
| **Display:** | 14.1" TFT active Matrix |
| **Software:** | Windows 98SE |
| **Comms:** | 56K Modem, 10/100 base TX Ethernet, Wi-Fi antenna (wireless LAN) |
| **Weight:** | 2.7kg |
| **Warranty:** | 1 year parts and labour |

**$2999.00**
Websearch Code ....189616
RentSmart $29.41 pw

**TE2000/PIII 1GHZ (Win2K/XP Pro)**

| | |
|---|---|
| **Processor:** | Mobile Intel PIII 1GHz |
| **Cache:** | 512KB cache memory, 133MHz system bus |
| **Memory:** | 128MB PC133 SDRAM expandable to 512MB |
| **Storage:** | IDE 20GB HDD, EIDE 8x DVD-ROM, Ext. 1.44MB FDD |
| **Graphics:** | 128 Cyber Aladin-T Graphics Controller |
| **Multimedia:** | M1535B PCI bus Sound chip, 16 bit stereo, integrated speakers |
| **Display:** | 14.1" TFT active Matrix |
| **Software:** | Windows 2000, Windows XP Pro |
| **Comms:** | 56K Modem, 10/100 base TX Ethernet, Wi-Fi antenna (wireless LAN) |
| **Weight:** | 2.7kg |
| **Warranty:** | 1 year parts and labour |

**$3199.00**
Websearch Code ....189617
RentSmart $31.37 pw

**TE2000/PIII 1133 (Win2K/XP Pro)**

| | |
|---|---|
| **Processor:** | Mobile Intel PIII 1.133GHz |
| **Cache:** | 512KB cache, 133MHz system bus |
| **Memory:** | 256MB PC133 SDRAM expandable to 512MB |
| **Storage:** | IDE 20GB HDD, EIDE 8x DVD-ROM, Ext 1.44MB FDD |
| **Graphics:** | 128 Cyber Aladin-T Graphics Controller |
| **Multimedia:** | M1535B PCI bus Sound chip, 16 bit stereo, integrated speakers |
| **Display:** | 14.1" TFT active Matrix |
| **Software:** | Windows 2000, Windows XP Pro |
| **Comms:** | 56K Modem, 10/100 base TX Ethernet, Wi-Fi antenna (wireless LAN) |
| **Weight:** | 2.7kg |
| **Warranty:** | 1 year parts and labour |

**$3845.00**
Websearch Code ....189618
RentSmart $37.71 pw

## Toshiba Portege Series

Ready to work when you are, the Portege 4000 delivers an advanced combination of ultra-portability and integrated functionality. Uncompromised for take-anywhere computing, your investment is well protected with wireless communication, common docking and a flexible slim SelectBay™. Forged in magnesium, the Portege 4000 portrays vast success whilst delivering absolute reliability - just the qualities you require to perform brilliantly on the road and in the new world.

- One touch connection to Desktop components with optional advanced Port Replicator

*Model 4000CT shown*

**4000 (WIN 98SE)**

| | |
|---|---|
| **Processor:** | Pentium III 750MHz |
| **Cache:** | 256KB |
| **Memory:** | 128MB RAM (exp to 1GB) |
| **Display:** | 12.1" TFT |
| **HDD:** | 20GB HDD |
| **CD-Rom:** | 8X SelectBay DVD |
| **Modem:** | 56K modem |
| **Network:** | 10/100 LAN, Wireless LAN, SD media slot |
| **OS:** | Win 98SE |
| **Warranty:** | 3 Year Parts & Labour |

**$4645.00**
Websearch Code....TOSH91
RentSmart $43.41pw

**4000 (WIN 2000)**

| | |
|---|---|
| **Processor:** | Pentium III 750MHz |
| **Cache:** | 256KB |
| **Memory:** | 128MB RAM (exp to 1GB) |
| **Display:** | 12.1" TFT |
| **HDD:** | 20GB HDD |
| **CD-Rom:** | 8X SelectBay DVD |
| **Modem:** | 56K modem |
| **Network:** | 10/100 LAN, Wireless LAN, SD media slot |
| **OS:** | Win 2000, XP Pro |
| **Warranty:** | 3 Year Parts & Labour |

**$4749.00**
Websearch Code....TOSH92
RentSmart $44.38 pw

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Verisign Secure Site

## HP Omnibook XE3/XE3L Notebook PC

# NEW RANGE!

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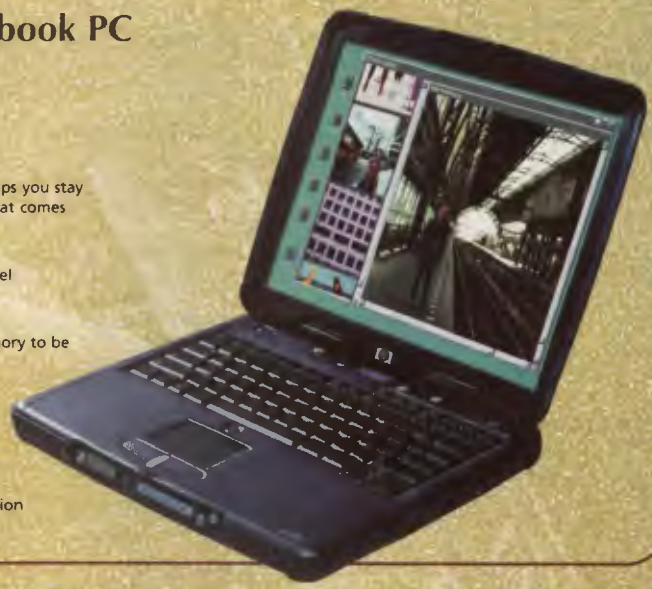
Whether you run your own business or work for a large enterprise, you need a notebook PC that helps you stay on top of it all. That's why HP created the HP Omnibook XE3 - a convenient, reliable notebook PC that comes with everything you need to do business . . .

- Get the performance you need for demanding business applications and presentations with the Intel Mobile Pentium III processor-M or Intel Mobile Celeron processor
- Work faster with increased memory
- Boost graphics performance with a new, shared-memory architecture that allows main system memory to be shared with video, based on application demands
- Digital video: optional IEEE 1394 port lets you quickly transfer digital video to your notebook
- Built-in CD-ROM, DVD-ROM, CD-RW, or DVD+CD-RW combo drive
- Built-in modem, LAN, and wireless accessories make it easy!
- Intel graphics controller
- 16-bit Sound Blaster Pro-compatible stereo sound
- Choose your operating system: preloaded Microsoft Windows XP Home Edition or Professional Edition (Windows 2000 on recovery CD), or Windows 98 Second Edition a notebook PC.



**Omnibook XE3L (F3455H)**
Processor: Celeron 1.06
Memory: 128MB
Storage: 10GB HDD, 24x CD-ROM
Display: 14.1" TFT
Software: MS Office XP Home Edition
Comms: 56K modem, 10/100 LAN

**$2649.00**
Websearch Code ....189607
RentSmart $25.98 pw

**Omnibook XE3L (F3455J)**
Processor: Celeron 1.06
Memory: 128MB
Storage: 10GB HDD, 24x CD-ROM
Display: 14.1" TFT
Software: MS Office XP Pro Edition
Comms: 56K modem, 10/100 LAN

**$2825.00**
Websearch Code ....189608
RentSmart $27.71 pw

**Omnibook XE3 (F3457H)**
Processor: PIII-M1130
Memory: 256MB
Storage: 20GB HDD, 8xDVD
Display: 14.1" TFT
Software: MS Office XP Home Edition
Comms: 56K modem, 10/100 LAN

**$3925.00**
Websearch Code ....189609
RentSmart $36.68 pw

**Omnibook XE3 (F3457J)**
Processor: PIII-M1130
Memory: 256MB
Storage: 20GB HDD, 8xDVD
Display: 14.1" TFT
Software: MS Office XP Pro Edition
Comms: 56K modem, 10/100 LAN

**$4095.00**
Websearch Code ....189610
RentSmart $38.27 pw

**Omnibook XE3 (F3456H)**
Processor: PIII-M1130
Memory: 256MB
Storage: 20GB HDD, 8xDVD
Display: 15.0" TFT
Software: MS Office XP Home Edition
Comms: 56K modem, 10/100 LAN
Ports: Includes IEEE1394

**$4575.00**
Websearch Code ....189611
RentSmart $42.76 pw

**Omnibook XE3 (F3456J)**
Processor: PIII-M1130
Memory: 256MB
Storage: 20GB HDD, 8xDVD
Display: 15.0" TFT
Software: MS Office XP Pro Edition
Comms: 56K modem, 10/100 LAN
Ports: Includes IEEE1394

**$4745.00**
Websearch Code ....189612
RentSmart $44.35 pw

**Omnibook XE3 (F3458H)**
Processor: PIII-M1130
Memory: 256MB
Storage: 30GB HDD, CDRW/DVD
Display: 15.0" TFT
Software: MS Office XP Home Edition
Comms: 56K modem, 10/100 LAN
Ports: Includes IEEE1394

**$5275.00**
Websearch Code ....189613
RentSmart $48.08 pw

**Omnibook XE3 (F3458J)**
Processor: PIII-M1130
Memory: 256MB
Storage: 30GB HDD, CDRW/DVD
Display: 15.0" TFT
Software: MS Office XP Pro Edition
Comms: 56K modem, 10/100 LAN
Ports: Includes IEEE1394

**$5445.00**
Websearch Code ....189614
RentSmart $49.63 pw

**COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!**

## INTERNET/ TABLETS

### Microsoft Internet Keyboard

One-Touch access to the Internet and more!
The Internet Keyboard has 10 Hot Keys on a comfortable standard keyboard design that also includes a detachable palm rest. The Hot Keys allow you to browse the web, or check e-mail directly from your keyboard.

**$55.00**
Websearch Code ....189045

### Microsoft Internet Keyboard Pro

Quick access, complete control. The Internet Keyboard Pro brings 19 Hot Keys and 2 USB ports to a comfortable standard keyboard design that also includes a detachable palm rest. Hot Keys allow you to browse the web, check e-mail, or play a CD directly from your keyboard.

**$79.00**
Websearch Code....MSS579

### Microsoft Natural Keyboard Pro

The Natural Keyboard Pro gives you one-touch access to the Internet, your e-mail, and your favorite multimedia controls. With its powerful IntelliType Pro software and built-in USB ports, the Natural Keyboard Pro combines comfort and control to let you work more efficiently.

**$109.00**
Websearch Code ....MIC205

## Nero 5

**The World's best CD recording software has got even better!**
Fast, reliable and user-friendly, Nero is the best companion you and your CD recorder could ever ask for. Driven by the idea of making the software you really want, Nero has evolved into a complete solution to all your CD recording needs.

**Back-up your hard disk before it's too late!**
Backing up essential folders or entire hard disks has become a necessity today for the safeguard of valuable data. In only 3 easy steps, Nero allows you to back-up partitions or entire hard drives onto several CD's. Using a sector based system, any operating system or file system can be backed-up and restored fully functional and configured.

**Back-up your audio and game CD's easily!**
Fast and user-friendly, the Nero Wizard makes CD recording a real pleasure. Even a first time user can be writing CD's in a matter of minutes, while the more advanced user will appreciate the Wizard's speed. Experience the magic of CD recording without worrying about the details. Nero comes with CD labels and label applicator. Design, print and apply your own CD labels, booklets and inlay cards.

**$135.00**
Websearch Code ....NER001

## Paint Shop Pro 7

**Perfect for Digital Photography**
For the traditional digital photographer and the novice user, Paint Shop Pro 7 incorporates several new intelligent photo enhancement features:

- Automatically adjust colour, brightness, and saturation for professional results
- Remove red-eye with one click - it works on all eye colours and even on animals!

**Perfect for Business/Home Use**
Business graphics users will appreciate the many improvements in Paint Shop Pro's drawing tools:

- Expand the possibilities with shapes, lines, and text that now support gradients, patterns, and textures on the fill and stroke styles
- Create styled lines with dots, dashes, and arrowheads
- Gain precision and control with Snap-to Grids and Guides.
- Make more complex images with Vectors - now you can group, align, distribute, arrange and resize easily.

**Perfect for Web Design**
Web developers can take full advantage of Paint Shop Pro 7's new built-in Web tools:

- Automatically embed URL links with new Image Mapping features
- Create visual mouse-overs with Image Rollover effects.

**$199.00**
Websearch Code ....JAS019

## Wacom Intuos2 Serial/USB Tablet

Dramatically improves the performance and feel of working with print and web images - even for the one in every three Photoshop users who are already using a tablet.

Intuos2 improves the ergonomics of pressure-sensitive pen input. The Intuos2 Grip Pen even comes with an extra rubber grip that enables you to remove the DuoSwitch if you prefer. Intuos2 Grip Pen features 1024 levels of tip and eraser pressure, tilt, angle and direction, and two side buttons that act as modifier keys, keystrokes, or mouse buttons.

The Intuos2 high-resolution 2D Mouse (optional extra) is designed for creating paths and the Intuos2 pressure-sensitive Grip Pen for cloning, blending and working with layer masks, you have the right tool for any task.

Intuos2 bundles Corel Painter Classic and Expression 2 Lite. Painter Classic features over 40 pressure sensitive Natural Media tools that give you the power to draw and paint with realistic oil paints, chalks, pastels, colored pencils - even watercolors!

**System requirements:**
PC - USB version: Windows 98/Me or Windows 2000, serial version also available.
MAC - USB version:
iMac with Mac OS 8.5 or later or Power Mac with Mac OS 8.5 or later, serial version also available

**Includes Pen only unless otherwise stated.**
**Mouse sold separately.**

| USB 4x5 | USB 9x12 (Incl. 4D Mouse) | USB 12x12 |
|---|---|---|
| **$409.00** | **$869.00** | **$869.00** |
| Websearch Code ....189279 | Websearch Code ....130933 | Websearch Code ....189268 |

## Wacom Graphire2 4x5 USB Tablet

Perfect for the digital photographer, budding videographer and computer graphics enthusiast. Each tablet comes with a removable pen stand and clear overlay to make tracing a breeze.

Comes with Wacom's renowned pressure-sensitive pen technology for a more natural and controlled way to retouch and edit your digital photos or to create original artwork on your computer. Features 512 levels of pressure sensitivity. Also perfect for signing your name to documents and for using with handwriting recognition in Microsoft's new Office XP.

Graphire2 bundles Corel Painter Classic and Expression 2 Lite. Expression 2 Lite is Drawing software that allows you to reproduce a variety of brush stroke effects, including an Animation stroke brush, Design stroke brush and Water stroke brush effect.

**System requirements:**
PC - Win 98/2000/ME and working USB port, CD-ROM drive, and colour monitor.
Mac - iMac with Mac OS 8.5 or later or PowerMac with Mac OS 8.0 or later with USB port, CD-ROM drive, and colour monitor.
**Includes Pen only. Mouse sold separately.**

WACOM

**$175.00**
Websearch Code ....189277



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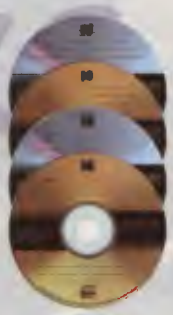
## Kodak CDR/CD-RW

| | | |
|---|---|---|
| Kodak Ultima Infoguard 80 Min CD-R Kodak Screen Print 12x in Jewel Case | 129418 | $1.99 |
| Kodak Ultima Infoguard 80 Min CD-R No Screen Print 12x in Jewel Case | 189574 | $1.99 |
| Kodak Ultima Infoguard 80 Min CD-R 10 Pack Kodak Screen Print 12x in Jewel Case | 189331 | $19 |
| Kodak Ultima Infoguard 80 Min CD-R 10 Pack No Screen Print 12x in Jewel Case | KOD082 | $19 |
| Kodak Ultima Infoguard 80 Min CD-R 50 Spindle Pack Kodak Screen Print 12x | 189343 | $65 |
| Kodak Ultima Infoguard 80 Min CD-R 50 Spindle Pack No Screen Print 12x | 189342 | $65 |
| Kodak CD-RW 10 Pack Kodak Screen Print 4x in Jewel Case | 189344 | $35 |
| Kodak DVD-RAM-RW 5.2GB 5 Pack (Must be compatible with DVD-RAM Book 1 specs) | 189345 | $99 |



### Kodak CD Media

CD-R Gold Ultima and Ultima 80 - The only disc that has gold in its silver reflective layer. Lasts up to six times longer than silver-only discs. CD-RW Rewritable CD for quality rewrites, again and again.

## Verbatim CDR/CD-RW

Verbatim CD-R and CD-RW discs feature a proprietary Metal AZO dye (which offers the best protection against sunlight), multi-speed recording, scratch-resistant, protective coating, a fully printable surface and across the board writer compatibility.

| | | |
|---|---|---|
| DataLife Plus 10 pack CD-R 74min 650mb 1x–16x | 130426 | $15.80 |
| DataLife Plus 10 pack CD-R 80min 700mb 1x–16x | VER124 | $16.50 |
| DataLife Plus 25 pack coloured CD-R 80min 700mb 1x–12x | VER123 | $34.95 |
| DataLife Plus Single CD-R 74min 650mb 1x–16x | VER043 | $1.65 |
| DataLife Plus Single CD-RW 74min 650mb 2x–4x | VER081 | $3.95 |

### Sony 10CDQ80N1

**16X 10pk CDR (700Mb/ 80min)**

Features:Sony CDR 16X-1X write compatible, Sony branded CDR in an individual jewel case, Wide Recording Power Margin, New organic dye and reflective layer. Super precise mastering and stamping

**$16.95**
Websearch Code ..SONY09

### Sony CDRW650DF

**1-4X Preformatted CDRW Disk (650MB)**

CD-RW is a CD format that uses phase-change-recording material to enable erasure and overwriting of previously recorded data. Preformatted CDRW media (Adaptec DirectCD) Sony CD-RW media complies with Orange Book Part III. It can be rewritten over 1000 times and is playable on Multi-Read CD-ROM drives.

**$5.95**
Websearch Code ..SONY11

### Sony CDRW650HS

**4-10X High-Speed CDRW (650MB)**

Record and rewrite up to 1000 times. With the ability to be rewritten this is suitable for graphic applications, multimedia and backup. Recording may also be difficult if the pickup lens is dirty or if laser power fluctuates due to ambient temperature or other factors.

**$4.99**
Websearch Code ..SONY12

## QuarkXPress 4

**The worldwide standard for excellence in electronic publishing.**

A powerful yet easy-to-use program, QuarkXPress is used by the world's leading designers and publishers to produce everything from newsletters, ads and brochures to product packaging, catalogues, magazines and newspapers. QuarkXPress is an integrated publishing package that combines expert type, layout, colour and graphics-handling features with professional illustration tools, word processing and sophisticated prepress functions - all in one application. Precise typography and layout tools give you unparalled design control and command over every aspect of your document, from conception to output.

*Pricing subject to change without notice due to matters such as currency fluctuations affecting our suppliers.

**$3249.00**
Websearch WIN ...QUA166

**$3249.00**
Websearch MAC ..QUA167

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# PRINTERS

## EPL-5700L

The ideal laser printing solution for small business and home offices, as well as for personal use in large companies. It gives you exactly what you want from a laser printer - high quality - with highly detailed 1200 dpi class resolution. Plus quick 8 ppm output, convenient operation and a USB interface for compatibility with both Windows and Mac computers.

EPSON

**$549.00**
Websearch Code ....EPL001
RentSmart $6.02 pw

## Epson EPL-5900

Robust 12ppm, true 1200dpi resolution network capable laser. Features a duty cycle of 15,000 pages per month, a photoconductor drum good for 20,000 pages and 6,000 page toner cartridge. Optional 10/100 BaseT network interface card. The EPL-5900 has cross-platform support with standard IEEE1284 bi-direction parallel and USB interfaces.

NEW

EPSON

**$675.00**
Websearch Code ....189468
RentSmart $7.40 pw

## Epson USB to Parallel Cable

Cable for use with:

- Epson Stylus Colour 440/640/600/800/850/1520/3000 &
- Epson Stylus Photo 700/Photo EX
- Mac only

**$155.00**
Websearch Code ....EPS449

## Stylus C20UX

EPSON

**The Easy-To-Use Home Colour Printer**

Professional-level colour printing technology and quality in an easy-to-use printer. The STYLUS C20UX delivers image clarity and text sharpness with 720 dpi (dots per inch) printing resolution; and with EPSON's Ultra Micro Dot and Variable-Sized Droplet technologies, documents, photos, school projects and even original T-shirt transfers are printed just as you expect them.

With the STYLUS C20UX, EPSON's key inkjet differentiator - the EPSON PerfectPicture Imaging System - provides:

- MicroPiezo print head technology,
- Quick-Dry inks,
- AcuPhoto Halftoning, and
- EPSON Specialty Media.

**$119.00**
Websearch Code ....EPS446

## Stylus C60

EPSON

It is a fact. If you want affordable, quality printing then you need an affordable, quality printer. Quality is precisely what you get. From the amazingly fast printing, to the print driver that is fun to use, right through to the fast, colourful and amazingly fine detailed prints, everything about this printer spells quality. Fast 12 ppm* for black text.Vibrant Superb and accurate colour printing with a four-colour ink system. Precise Super fine detailed printing with up to 2880 dpi, MicroPiezo Print Head and 4pl Variable Sized Droplet Technology IntelligeÆ ink system Designed to work perfectly with the printer and media to ensure you get the very best print quality and trouble-free, peace-of-mind printing, every print, every time.

**$285.00**
Websearch Code ....EPS466

## Stylus Colour C70

Fast 16 ppm inkjet printer for greater productivity In the world of business, printing is a serious matter. Presentations, financial reports, business correspondence – they all demand a printer that actually supports the importance of any document. With the EPSON STYLUS C70, total print dependability is the key. It's a dependability built on the printer's speed, intelligence, print durability and precision.

**$429.00**
Websearch Code ....EPS467

## Stylus Colour C80

The business inkjet printer with super-fast 20 ppm, high quality, durable printing The EPSON STYLUS C80 represents a landmark in EPSON's award-winning SYLUS colour inkjet printers for serious business users. In a single printer, speed, precision, print durability and operational ease have been brought together, delivering a "no compromise" print solution.

**$599.00**
Websearch Code ....EPS468
RentSmart $4.57 pw

## AcuLaser C2000P

- Colour Printing at 5ppm and B/W at 20ppm
- AcuLaser Colour Halftoning provides print resolution equivalent to 2400 dpi (defined print resolution: 600dpi).
- The main paper cassette holds 500 sheets
- Adobe Postscript 3
- 10/100Base T, Parallel interface
- Windows 95/98/2000

**$5239.00**
Websearch Code ....EPS420

EPSON

RentSmart $47.76pw

## Stylus C40UX

Optimum image detail and text sharpness with 1440 dpi resolution. With Ultra Micro Dot and Variable-Sized Droplet technologies, documents, photos and even T-shirt transfers are printed with incredible crispness and clarity.

**$169.00**
Websearch Code ....EPS447

EPSON

## Stylus Photo 810

The STYLUS Photo 810 packs a powerful punch for any printing need. This printer comes with EPSON's photo manipulation software, PhotoQuicker 3.0, and together with the design specifications meets the exacting requirements of high quality photographic printing.The ideal printing solution for all enthusiastic photographers

**$379.00**
Websearch Code ....EPS463

EPSON

## Epson Stylus Photo 895

Enjoy the personal digital photo-lab experience right from your desk. Delivering up to 2880 x 720 dpi, six-colour, True BorderFree printing of your photos, either from your computer or standalone printing from data via your digital camera memory card

**$719.00**
Websearch Code ....EPS464

EPSON

RentSmart $7.84 pw

## Stylus Photo 1290

Exceptional speed, & can produce lightfast prints that retain their colour for over 10 years! With A3+ and more natural 6-colour printing at 2880 dpi and USB/Parallel interface

- Win/Mac

**$1075.00**
Websearch Code ....EPS445

EPSON

RentSmart $11.78 pw

## Stylus Photo 2000P

Designed from the outset to produce professional quality photographic prints, the EPSON STYLUS PHOTO 2000P is ideal for professional photographers, graphic designers and amateur enthusiasts

- Win/Mac

**$1839.00**
Websearch Code ....EPS413

EPSON

RentSmart $20.16 pw

## Stylus Colour 1160

- A3 full bleed
- 1440 x 720 dpi
- 9.5ppm mono, 9.2ppm colour
- USB/Parallel interface
- Win/Mac

**$609.00**
Websearch Code ....E-5398

EPSON

RentSmart $6.68 pw



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## PRINTERS & SCANNERS

### Canon BJC 1000 SP

Outstanding operating Economy. Low purchase price plus Super Economy Mode in black & white and colour.

- Vivid colours, even on plain paper, plus optional high speed black & white.
- Crisp printing up to 720dpi.
- Fast, up to 4ppm in black.
- Up to 2400 pages in black/400 colour page
- Exceptional photographic quality. Photo Mode colour with standard inks optimised for plain paper, plus optional PhotoRealism to provide the gold standard in photographic reproduction.
- Parallel interface.
- Win.

**$89.00**
Websearch Code.....CAN290

### Canon BJC 2100 SP

A compact, portable high performance printer. Compact design with smart two-tone finish.

- 720 dpi resolution plus Drop Modulation Technology.
- 5 ppm black text & up to 2ppm colour.
- Image and photo optimiser.
- Photo Realism option.
- Now with parallel port for Windows 95/98/2000 & Nt 4.0 plus USB for Windows 98/2000 & Mac.

**$129.00**
Websearch Code.....CAN301

### Canon BJC 85

**Uses half your briefcase not half your desktop!**

- USB connectivity
- Up to 5ppm b/w, 2ppm colour
- 720 x 360 dpi
- Optional 4 colour printing
- Cordless printing
- Optional Colour image scanning

**$389.00**
Websearch Code ..CAN287

### Canon S600

- Four individual ink tanks with low-ink sensor
- Up to 15 ppm black / 10ppm color
- 2400 x 1200 dpi in color (38% greater than 2880 x 720 dpi) 8" x 10" photo in approx. 90 seconds on plain paper
- Advanced MicroFine Droplet Technology™ for exceptional photo-image quality
- Compatibility: Windows® 95/98/2000, Windows NT 4.0, Windows Me and Mac OS 8.1 or later.
- Parallel and USB.
- Image and photo optimiser.

**$349.00**
Websearch Code.....CAN320

### Canon BJC 55 Portable

The ultra-compact BJC-55 Color Bubble Jet Printer is a true powerhouse, delivering all the features you need- from a lightweight design and long-life battery to easy USB and wireless connectivity - to produce impressive documents in the office or on the road.

**$565.00**
Websearch Code ...189294
RentSmart $6.19 pw

### Canon S800

- 2400 x 1200 dpi, MicroFine Droplet Technology with 4 picolitre drops and New PhotoRealism 6 colour inks 1/6 the density of normal inks to produce up to 49 levels of colour gradation for long life and stunning photographic results
- Extremely accurate drop patterns & new star shaped nozzles to achieve reduced grain & image stability
- Separate ink tanks for each colour with level detection system for reduced operating costs

**$559.00**
Websearch Code.....CAN500
RentSmart $6.13 pw

### Canon N1240U

The World's First USB, Ultra-compact 1200 dpi Colour Scanner

- Amazing 1200 x 2400dpi optical with selectable resolution up to 9600dpi
- 42 bit input colour depth
- New Z-lid for scanning thick documents or books
- Front panel button and software for simple email, fax and copy operation
- Software for Windows & Mac including OmniPage and PhotoShop Elements

**$279.00**
Websearch Code ..CAN503

### Canon D1230U

- 1200 x 2400dpi optical res.
- 48 bit input and 42 bit output colour depth
- Superior optics for maximum image quality
- USB connection for Win 98/Me/2000 or Mac OS 8.5+
- Front panel push-button for simple e-mail, faxing and copying
- Includes Adobe PhotoShop LE and OmniPage Windows & Mac

**$389.00**
Websearch Code ...130391

### Canon N640Pex

Whether it's for the home office or small office, the CanoScan N640Pex is the perfect solution for all your scanning needs.

- Optical resolution is 600 by 1200 dpi with selectable resolution up to 9600 dpi.
- OmniPage OCR software and ArcSoft PhotoStudio 2000 image editing included.
- Minimal desktop space - revolutionary 39 mm thick design.
- Parallel interface
- Win

**$139.00**
Websearch Code ..CAN310

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## PRINTERS

### hp officejet t65

- Photo-Quality Colour Printing
- HP PhotoREt II
- Fast black and colour
- Colour Faxing
- One-touch buttons
- Speed dial feature
- Integrated OCR software
- Parallel interface
- Win

LIMITED STOCKS

$359.00
Websearch Code ..HWP417

### hp PSC 750

The HP PSC 750 is a versatile, flatbed printer, scanner and copier all-in-one. Create colour brochures, make copies of price lists, and scan photos to use in your promotional literature – all using one compact unit, right at your desktop.

$579.00
Websearch Code ..HWP418
RentSmart $6.35 pw

### hp officejet g85

HP™s premium performance, all colour, flatbed printer/fax/scanner/copier all-in-one with automatic document feeder for your office.

Scan to e-mail:

- scan anything directly into your e-mail or other applications with a single button push.

$1179.00
Websearch Code ..HWP005
RentSmart $12.92pw

### hp deskjet 656c

**Add colours to your life with HP 's easy and affordable colour printer**

- prints up to 6 ppm black and 3 ppm colour
- photo-capable with optional hp photo print cartridge
- black/colour cartridges included
- brighter,more vivid colours with HP ColorSmart 3
- compact with fold-up paper tray
- USB connectivity for PC

NEW

$134.00
Websearch Code ..HWP440

### hp deskjet 845c

**Step up to HP's photo-quality printer that gives you true-to-original colours**

- HP PhotoREt 2 colour layering technology delivers true-to-original colours
- crisp black text and photo-quality images
- up to 600 x 1200 dpi using premium photo paper
- no swapping ink cartridges to print outstanding photo-quality colour
- USB connectivity for PC and Macintosh

$179.00
Websearch Code ....189547

### hp deskjet 930c

**HP's compact photo-quality colour inkjet printer**

- 9ppm black, 7.5ppm colour
- PhotoREt 3, 2400 x 1200 dpi
- Get outstanding photo quality on any paper
- Great for offices with limited workspace
- Parallel / USB
- Win/Mac

$249.00
Websearch Code ..HWP435

### hp deskjet 960c

**HP™s smart photo-quality colour printer that saves you time and money**

- up to 2400 x 1200 dpi using premium photo paper
- HP ColorSmart 3 - optimises text, graphics and photos by automatically adjusting colour settings
- low-ink indicator ensure you never run out of ink while printing
- optional automatic two-sided printing

NEW

$439.00
Websearch Code ..HWP441

### hp deskjet 350cbi

HP's robust and reliable mobile printer for professionals on the move

- Drop-tested and shock-tested
- High volume ink cartridges
- Fast, built-in recharging
- 30-page portable sheet feeder
- Wireless printing
- Mac and PC compatible

$575.00
Websearch Code ..HWP015
RentSmart $6.30 pw

### hp deskjet 1125c

A3 Printing

- Print any size from postcards (A6) to posters (A3+).
- Up to 7ppm black and 5.5ppm colour
- HP ZoomSmart reduce or enlarge documents
- Booklet printing
- Two-sided printing
- HP PhotoREt 2
- USB interface
- Win/Mac

$579.00
Websearch Code ..HWP445
RentSmart $6.35 pw

### hp deskjet 948c

- up to 2400 x 1200 dpi using premium photo paper
- HP ColorSmart 3 - optimises text, graphics and photos by automatically adjusting colour settings
- create photo album pages easily with photo software - just drag and drop photos into template
- parallel and USB connectivity, even supports USB-connect Macintosh

$279.00
Websearch Code ..HWP403

### hp deskjet 990cxi

Good quality prints, and a host of useful features.

- Up to 17ppm black printing and 13ppm colour
- 2400x1200dpi on photo paper
- Two sided printing
- Infrared port for printing from mobile devices
- Parallel / USB interface
- Win/Mac

$599.00
Websearch Code ..HWP508
RentSmart $6.57pw

### hp deskjet 1220c

A3 Printing

**The high performance wide-format inkjet printer for all business needs**

- 11ppm black, 9.5ppm colour
- PhotoREt 3, 2400 x 1200 dpi
- Outstanding colour quality
- Full bleed A3+printing
- Parallel / USB interface
- Win/Mac

$865.00
Websearch Code ..HWP436
RentSmart $9.48pw

### HP LaserJet 1200 Series

All models have

- 1200 x 1200dpi
- 15ppm
- HP PCL 5e
- 250 sheet tray
- Parallel / USB interface
- Win/Mac

1200
$785.00
Websearch Code ..HWP501
RentSmart $8.60 pw

1200N - HP JetDirect Network Card, optional scanner/ copier adaptor, 16mb std, 10/100 Base-T

1200N
$1315.00
Websearch Code ..HWP502
RentSmart $14.41pw

### HP LaserJet 2200 Series

All models have

- 1200dpi
- 18ppm
- 133MHz processor
- HP PCL 5e/6
- Parallel / USB
- Win/Mac

2200D - 8MB 250 sheet tray parallel port

2200D
$1579.00
Websearch Code ..HWP503
RentSmart $17.31 pw

2200DN - 8MB 250 sheet tray parallel port local talk

2200DN
$2059.00
Websearch Code ..HWP504
RentSmart $22.57 pw

2200DTN - 16MB 500 sheet tray parallel port 10/100 Base-T

2200DTN
$2629.00
Websearch Code ..HWP505
RentSmart $28.81pw

### HP LaserJet 4100 Series

All models have

- 1200dpi
- 24ppm
- 250MHz processor
- HP PCL 5e/6
- PostScript Level 3 emulator

4100 - 16MB parallel port

4100
$2249.00
Websearch Code ..HWP511
RentSmart $24.64pw

4100N - 32MB parallel port 10/100 Base-T

4100N
$2999.00
Websearch Code ..HWP506
RentSmart $29.41 pw

4100TN - 32MB parallel port 10/100 Base-T

- Includes extra 500 sheet paper tray.

4100TN
$3489.00
Websearch Code ....189299
RentSmart $34.22 pw



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## HP Inkjet Print Cartridge

HP Number 49 Tri-colour ink cartridge. High performance colour ink cartridge for DeskJet/DeskWriter 600 series. Also suitable for Officejet 590/635 printers. 22.8ml volume.

**$69.00**
Websearch Code ....HPI007

## HP Inkjet Print Cartridge

HP Number 15 black ink cartridge for DeskJet 810c, 812c, 840, 845, 845c, OfficeJet K60 and PSC 500 All-in-One. 495 pages at 5% coverage. Proprietary HP pigmented ink. High quality output on everyday paper.

**$62.00**
Websearch Code ....HPI027

## HP Bright White Inkjet paper

Versatile paper for colour printing on your HP DeskJet, DeskWriter and HP OfficeJet printers and HP CopyJet colour copiers.

**$29.95**
Websearch Code ....189081

## SCANNERS & SUPPLIES

## HP scanjet 7450c

Featuring HP's exclusive new CCD scanning technology, the SJ7400c Series provides market-leading image quality with uncompromising speed. The office ready features make it easy to create impressive communications projects and manage business crtical documents while saving time and resources.

- 2400 dpi optical
- Automatic document feeder, scan up to 15 ppm
- 48 bit colour
- Scan, copy, email, fax and file
- Scan 35mm slides and up to 5x5" transparencies
- SCSI & USB
- Supports Windows & Mac

invent

**$1540.00**
Websearch Code ....HPS050
RentSmart $16.88 pw

## HP scanjet 2200c

The HP Scanjet 200c colour scanner is a simple, complete solution - everything you need to start scanning today is in the box. Connecting to your USB - PC is a snap with the handy USB port. Exclusive software makes it easy to install - HP's scanning software guides you every step of the way.

- 600 x 1200 dpi hardware resolution
- 9600 dpi enhanced resolution operating system
- Microsoft® Windows® 98, 2000 Professional and Microsoft® Windows® Me
- Handy USB port makes connecting to your USB-PC easy

**$174.00**
Websearch Code ....HPS049

## HP scanjet 4400c

Make your old photos last forever. With the Scanjet 4400cse you can save old family photos, make digital scrapbooks and send them to your family via e-mail. It's easy to do, just press a single button to scan, e-mail, photo reprint, copy and more.

- 1200 x 1200 dpi hardware resolution
- Windows 95, 98, Me, NT 4.0 or 2000 professional.
- USB Connection: Microsoft Windows 98, Me, 2000 and Mac 8.6 - 9.1
- 1 year warranty

**$269.00**
Websearch Code ....HPS051

## HP scanjet 4470c

Release your creativity with the Scanjet 4470c. Save your prized photos and documents onto a CD with just one click. Make scanning easy and fun with the other one-button functions: scan, share to web, scan to e-mail, color copy, photo reprint.

- 1200 x 2400 dpi hardware resolution
- Scan 35mm negatives and slides with included Active Transparency Adapter
- USB/Parallel ports mean you can connect easily to your PC or Mac (USB cable included)

**$359.00**
Websearch Code ....HPS053

## HP scanjet 5400c

High-performance 2400dpi scanner for professional use. Make scanning easy and fun with the one-button functions: scan, share to web, scan to e-mail, color copy, photo reprint.

- 2400dpi optical, 2400 x 2400dpi hardware
- 8 sec previews
- 48-bit colour
- Includes USB & parallel cable and power cord.
- MS Windows 95/98/2000/Me/NT4.0 and Mac compatible

**$425.00**
Websearch Code ....HPS054

## HP scanjet 5470c

Your projects shine with the 5470cse color scanner. Scan 2400 dpi and 48 bit color. Get preview scans in 8 seconds. Save time with the optional 25 page Automatic Document Feeder. Eight one-touch buttons let you scan, e-mail, photo reprint and more.

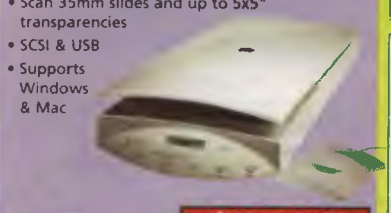
- 2400 x 2400 dpi resolution
- Parallel Conection: MS Windows 95, 98, Me, NT 4.0 or 2000 professional.
- USB Connection: Microsoft Windows 98, Me, 2000 and Mac 8.6 - 9.1.

**$544.00**
Websearch Code ....HPS055
RentSmart $5.96 pw

## HP scanjet 7400c

Featuring HP's exclusive new CCD scanning technology, the SJ7400c Series provides market-leading image quality with uncompromising speed. The office ready features make it easy to create impressive communications projects and manage business crtical documents while saving time and resources.

- 2400 dpi optical
- 48 bit colour
- Scan, copy, email, fax and file
- Scan 35mm slides and up to 5x5" transparencies
- SCSI & USB
- Supports Windows & Mac



**$999.00**
Websearch Code ....HPS048
RentSmart $10.95 pw

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## MICROSOFT

## Microsoft Visio 2002 Standard

Microsoft Visio 2002 Standard makes it easy to create professional business and technical diagrams! Communicate and visualize ideas, information, and systems, from process flows and hierarchies to network topologies, facilities planning or organisational charts. Assemble diagrams using predefined SmartShapes and position shapes using drawing aids that facilitate precise placement, alignment and shape connections. Easily add attractive backgrounds, borders, titles ands color schemes to produce diagrams that make an impact!

Upgrade $219.00 Websearch Code....MS5686

Full Product $425.00 Websearch Code....MS5685

## Microsoft Visio 2002 Professional

**Powerful Design and Documentation Tools for IT Professionals**

Whatever your IT project-inventorying existing networks, planning network expansions, Microsoft Visio® 2000 gives you the drawing and diagramming tools you need for drawing and diagramming network infrastructures. Use it to get a clear picture of the systems you support today, start planning for the ones you'll need tomorrow, and communicate IT plans across your organization.

Upgrade $545.00 Websearch Code....MS5688

Full Product $1069.00 Websearch Code....MS5687

Microsoft

## Microsoft FrontPage 2002

This version is the tool for the creation and editing of SharePoint sites for team collaboration. With its new Web components, improved interface, and enhanced wizards, FrontPage 2002 offers the quickest route to a professional-looking Web site for the rest of us; although the software now preserves HTML code, programmers will still steer clear of it.

Upgrade $199.00 Websearch Code....MS5680

Full Product $385.00 Websearch Code....MS5679

## Microsoft Project 2000

Microsoft® Project 2000 is the sixth Windows® operating system-based release of what has grown to be the world's most popular project management software. It represents a new milestone for Microsoft Corp.'s project management offerings. Microsoft Project's installed base, which is well over 5 million users worldwide, includes a wide variety of user types, ranging from general knowledge workers to expert project managers. Microsoft Project 2000 is the result of an enormous research and development effort focused on this entire spectrum of customers and offers major feature additions and enhancements. Microsoft Project 2000 provides knowledge workers with the flexibility to collaboratively plan and track projects and deliver the results their business demands. It is the single planning tool needed in an organization.

In addition, a new companion product, Microsoft Project Central, is being introduced to work closely with Microsoft Project 2000. Microsoft Project Central is a Web-based collaboration tool, allowing two-way communication between everyone involved in a project and also allowing data access to anyone, even those without Microsoft Project 2000 on their desktops. With Microsoft Project 2000, Microsoft Project Central will make project management a much more accessible activity for a broader user audience than ever.

Upgrade $455.00 Websearch Code....MS5281

Full Product $1135.00 Websearch Code....MS5280

Microsoft

## Microsoft Publisher 2002

A business desktop publishing program designed for business users who are serious about creating their own marketing materials without the help of a professional designer. Since 1991, Microsoft Publisher has been the desktop publishing tool of choice for small businesses and home-based businesses wanting to create, quickly and easily, high-quality newsletters, flyers, brochures, Web sites, and more.

Upgrade $235.00 Websearch Code....MS5674

Full Product $299.00 Websearch Code....MS5673

## Microsoft Office V.x for Mac

All four Office applications, Word X, Excel X, PowerPoint X and Entourage X, have been improved, inside and out. On the inside, Quartz. On the outside, Aqua. Just like Mac OS X.

NEW

Upgrade $595.00 Websearch Code....MS5710

Full Version $949.00 Websearch Code....MS5709

## Microsoft Word X for Mac

Microsoft Word X for Mac is a word processing and publishing program for creating home, business, and school documents. Word X, offers a number of advanced features that make it even easier to create professional documents, letters, Web pages, and other printed or online material.

A powerful word processing program designed specifically for Mac OS X. Simple, fast, and flexible, Word X continues to set the standard. Now it's easier than ever to make a statement: Whether you're writing a letter or crafting a Web page, Word X has everything you want.

Full Version $765.00 Websearch Code....131008

Upgrade $315.00 Websearch Code....131009

## Microsoft Excel X for Mac

Microsoft Excel X for Mac is a powerful spreadsheet program for evaluation, calculating, and analyzing data, as well as creating charts and reports.

A powerful and flexible spreadsheet program designed specifically for Mac OS X. With Excel X, it's easier than ever to analyze, report, and share your data. Whether you're a business bean counter or a busy home budgeter, Excel has the tools you want to get the answers you need.

Full Version $765.00 Websearch Code....131005

Upgrade $315.00 Websearch Code....131006



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VISA

# Microsoft Office XP

With all the features you've come to expect from one of the most successful office suites in the industry plus some brand new ones. Microsoft's Office XP comes in several different versions; Standard, Professional, Special Professional, Developer and Small Business. These versions differ in the applications included in them.

## Office XP Line Up

| | Professional SE | Professional | Standard | Subscription Professional |
|---|---|---|---|---|
| Word | Yes | Yes | Yes | Yes |
| Excel | Yes | Yes | Yes | Yes |
| Outlook | Yes | Yes | Yes | Yes |
| PowerPoint | Yes | Yes | Yes | Yes |
| Acess | Yes | Yes | | Yes |
| Publisher | Yes | | | |
| FrontPage | Yes | | | |
| Intellimouse | Yes | | | |

Microsoft

*Boxes shown are for full version products*

**Professional Upgrade Special Edition**

See Back Page for Details

Upgrade $499.00 Websearch Code....MS5663

**Professional**

Upgrade $675.00 Websearch Code....MS5666

Full Product $1129.00 Websearch Code....MS5667

**Standard**

Upgrade $479.00 Websearch Code....MS5665

Full Product $949.00 Websearch Code....MS5664

**Subscription Professional**

Full Product $359.00 Websearch Code....MS5684

# Microsoft Windows XP Home

Windows XP Home Edition is an excellent choice for most home users, with exciting new features that help you do more with your computer.

- New visual design makes it easier to do common tasks efficiently.
- Digital photo features let you acquire, organize, and share pictures.
- All-in-one music tool for discovering, downloading, storing, and playback of the highest-quality digital music.
- Everything you need to create, share, and enjoy videos on your computer.
- Easy computer sharing and home networking.
- The ultimate communication tool for instant messaging, voice or video conversations.
- Tools for recovering from problems or getting help from an expert.
- The most reliable, secure, and dependable operating system to keep your system up and running.

From digital photos, music and video to building a home network, Windows XP Home Edition brings you into the digital age with ease.

Upgrade $209.00 Websearch Code....MS5701

Full Product $399.00 Websearch Code....MS5700

# Microsoft Windows XP Professional

Windows XP Professional, provides the highest levels of performance, productivity, and security. It is the best choice for business users and for home users who demand the most from their systems. All the benefits of Windows XP Home Edition, *plus*

- Greater security, including the ability to encrypt your files and folders, to protect your business data.
- Premier mobile support for the ability to work offline or access your computer remotely.
- Built-in support for high-performance multiprocessor systems.
- Designed to work with Microsoft Windows Servers and management solutions.
- Communicate efficiently with others around the world by working in any given language.

Goes beyond the benefits of Windows XP Home Edition with advanced capabilities designed specifically to optimise productivity using the latest advancements in the digital world.

Upgrade $409.00 Websearch Code....MS5703

Full Product $585.00 Websearch Code....MS5702

## Windows 2000 Server

The Windows 2000 Server Family integrates standards-based directory, Web, application, communications, file and print services with high reliability, efficient management, and support for the latest advances in networking hardware to provide the best foundation for integrating your business with the Internet.

Microsoft

Server 5 clients $1899.00 Websearch Code....MS5284

Server 10 clients $2725.00 Websearch Code....MS5283

## Windows 2000 Professional

Windows 2000 Professional is the best desktop and mobile operating system for businesses of all sizes. It's the easiest, most reliable Windows yet because it combines the reliability, security, and manageability of Windows NT Workstation with the best business features of Windows 98. In addition to removing unnecessary desktop items, Windows 2000 Professional introduces Personalised Menus, a new "smart" feature that adapts the Start menu to the way you work by showing you the applications you typically use most often.

MS Prof. Win 2000 NT4 UG MS5596 $335.00

MS Prof. Win 2000 Win95/98 UG MS5597 $485.00

Full Product $669.00 Websearch Code....MS5598

# Save $$$ with Adobe Collections

## Adobe Upgrades

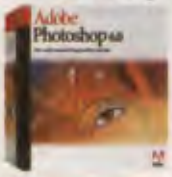
### Adobe Acrobat 5
(From version 2 or later)

$259.00
UPGRADE

### Adobe Illustrator 10

$375.00
UPGRADE

### Adobe Photoshop 6



$429.00
UPGRADE

### Adobe PageMaker 7

$215.00
UPGRADE

## Adobe Design Collection*

The Adobe Design Collection contains four leading-edge design and publishing applications in one fully integrated suite. Together these programs give you everything you need to create and produce professional documents across media.

**Includes:**
- Adobe InDesign
- Adobe Photoshop
- Adobe Illustrator
- Adobe Acrobat

$2499.00
Websearch WIN ....ADO222
Websearch MAC ..ADO223

## Adobe Publishing Collection

The Adobe Publishing Collection brings together four powerful applications for business, education and small office/home office professionals. These complementary applications help you create professional looking communications for print and the Web.

**Includes:**
- Adobe PageMaker
- Adobe Photoshop
- Adobe Illustrator
- Adobe Acrobat

$2599.00
Websearch WIN .....130987
Websearch MAC .....189337

## Adobe Web Collection*

The Web Collection is a comprehensive, tightly integrated software suite that gives you the power to design extraordinary still and interactive Web graphics, optimize those graphics for efficient downloading, and build dynamic Web sites that support the latest technology and standards.

**Includes:**
- Adobe GoLive
- Adobe Photoshop
- Adobe Illustrator
- Adobe LiveMotion

$2699.00
Websearch WIN ....ADO209
Websearch MAC ..ADO210

## Adobe Digital Video Collection

Adobe Digital Video Collection delivers professional tools for putting your ideas into motion. Whether you produce projects for film, multimedia, video, or the Web, you'll gain the creative control you need to achieve superb results.

**Includes:**
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- Adobe Photoshop
- Adobe After Effects
- Adobe Illustrator

$3025.00
Websearch WIN .....189626
Websearch MAC ....189624

Collections which include Illustrator 9.0 or InDesign 1.5 qualify to receive a free upgrade (until new version ships) to Illustrator 10 & InDesign 2.0. * To claim your FREE Upgrade, please contact Adobe Customer Service on 1300 550 205. Conditions apply.

## Adobe FrameMaker 6.0

The multichannel technical publishing solution for print and Web, delivering a comprehensive solution for publishing long, content-rich documents across multiple channels. Whether publishing to the Web, CD-ROM, or print, work more productively than ever before. Improved book-building features including book-wide commands, and now gives you the power of Quadralay WebWorks Publisher Standard Edition software for enhanced HTML and XML capabilities.

$2275.00
Websearch WIN ....ADO255
Websearch MAC ....189044

## Adobe PhotoDeluxe 4.0 Home Edition

With Adobe PhotoDeluxe Home Edition for Windows, it's easy to bring photos into your computer, organize them in albums, and make improvements. Then you can have endless fun creating personalized photo projects to share with family and friends in print, via e-mail, or on the Web. PhotoDeluxe comes to you from the makers of Adobe Photoshop 6.0, the industry-standard image editing tool for professional designers.

$145.00
Websearch .....ADO280

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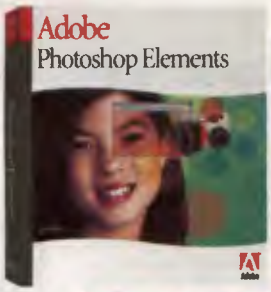
VISA

## WEB, DESIGN & PUBLISHING

## Adobe Photoshop Elements

**Creating and editing digital images for print and the Web has never been easier**

AdobePhotoshop Elements software offers unique features designed specifically for amateur photographers, hobbyists, and business. Learn sophisticated Photoshop editing techniques with Recipes that can be expanded via the Web. Merge multiple images into seamless panoramas with Adobe Photomerge technology. Create eye-catching compositions of images, text, and graphics. Automatically create drop shadows, bevels, glows, and realistic 3D text and buttons. Visually preview an image and quickly apply creative filters. Easily view your most recent edits and undo multiple steps with a single click.




**$245.00**
Websearch WIN/MAC 111163

## Adobe Acrobat 5.0

**The best way to share documents online**

Whether you create business plans, spreadsheets, graphically rich brochures, or Web sites, Adobe Acrobat 5.0 software lets you convert any document to an Adobe Portable Document Format (PDF) file. Conversion is as easy as a click within your Microsoft Office toolbar (Windows only). Your team can work smarter by electronically adding comments and signing documents without leaving their Web browsers. Easily secure your documents with password protection. Anyone with the free Adobe Acrobat Reader™ software can open Adobe PDF files across a broad range of hardware and software, and the files will look exactly as intended-with layout, formatting, and images intact.

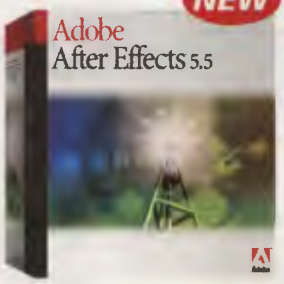
**$595.00**
Websearch WIN .....111186
Websearch MAC .....111187

## Adobe After Effects 5.5

**The essential tool for motion graphics and visual effects**

5.5 software provides complete creative control so you can efficiently produce motion graphics and visual effects for film, video, multimedia, and the Web. Work in a 2D or 3D compositing environment while you precisely control the position and animation of layers. Animate layered Adobe Photoshop and Adobe Illustrator files and import Adobe Premiere projects.

NEW




| Standard | Professional |
|---|---|
| **$1799.00** | **$3795.00** |
| Websearch WIN ..111137 | Websearch WIN ..111139 |
| Websearch MAC ..111138 | Websearch MAC ..111140 |

## Adobe Open Options Transactional License Program

The Adobe Open Options Transactional License Program (TLP) makes it easy for organizations with as few as ten workstations to participate in volume purchasing. It offers ease of entry, covers most Adobe products, and is available worldwide. With no contracts to sign and no need to forecast software consumption, organizations can participate in the TLP with no administrative overhead.

The TLP evaluates each transaction separately, assigns it a point value, and applies the volume discount level that is appropriate to the size of each transaction. Each eligible Adobe product counts for either one or two points, and points accrue equally to the purchase of new licenses, the upgrade of previously acquired licenses, or the enrollment of an eligible license in the Maintenance program.

The TLP is open to corporate, government, education, and small-business customers.

**Call 1300 300 003 for quotes and details of products covered.**

## Adobe GoLive/LiveMotion Pack

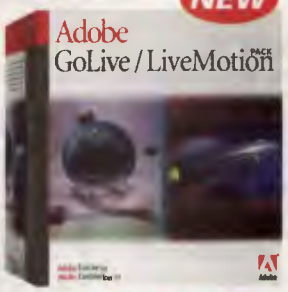
**Turn Photoshop & Illustrator files into interactive Web animations**

NEW

Rapidly animate, develop, manage, and deploy dynamic, interactive sites for the Web and wireless devices with the Adobe GoLive /LiveMotion Pack. Take advantage of LiveMotion software to create Macromedia Flash(SWF) animations with ActionScript and to streamline your design work flow with automation scripts. Then develop professional Web sites with GoLive software, and easily manage them with the new integrated Adobe Web Workgroup Server.

Optimize industry standard assets such as Adobe Photoshop, Adobe Illustrator, and SWF files, and connect your site to a dynamic database or an e-commerce engine.

With the Adobe GoLive/LiveMotion Pack, you can efficiently create a powerful, dynamic Web presence.




**$1149.00**
Websearch WIN .....189549
Websearch MAC .....189548

## Adobe Illustrator 10

Adobe Illustrator 10 software defines the future of vector graphics with groundbreaking creative options and powerful tools for efficiently publishing artwork on the Web, in print, everywhere.

Produce superb Web graphics using symbols and innovative slicing options. Explore creative ideas with live distortion tools. Publish graphics in record time with dynamic data-driven graphics and other productivity features.

**$1085.00**
Websearch WIN ....ADO309
Websearch MAC ..ADO308

## Adobe PageMaker 7.0

Adobe PageMaker 7.0 software is the ideal page layout program for business, education, and small- and home-office (SOHO) professionals who want to create high-quality publications such as brochures and newsletters. Get started quickly with templates, graphics, and intuitive design tools; work productively across Adobe applications.

**$1345.00**
Websearch WIN ....ADO297
Websearch MAC ..ADO298

## Adobe Premiere 6.0

**The essential tool for professional video editing**

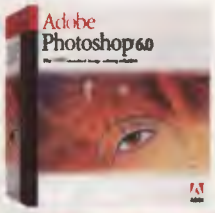
Adobe Premiere 6.0 , a stunningly simple and powerful professional video editing tool. It delivers an essential set of tools for creating video for the Web, DVD, CD-ROM, and videotape. With robust DV support, direct export to all the leading Web streaming-video formats, and enhanced professional tools.

**$1449.00**
Websearch WIN ....ADO290
Websearch MAC ..ADO293

## Adobe PhotoShop 6.0

**The world-standard image editing solution**

Transform images and perform complex masking tasks with professional-level precision. Complete all your essential Web functions including file optimisation right in Photoshop, and then jump to the ImageReady application to slice layered images, produce JavaScript rollovers and create GIF animations.




**$1595.00**
Websearch WIN ....ADO272
Websearch MAC ..ADO273

## Adobe InDesign 2.0

Adobe InDesign 2.0 integrates with other Adobe applications better than any other page layout product. Plus it 's packed with intuitive features that free you to capture your inspiration and publish it anywhere - in print, in Adobe PDF,as eBooks, on the Web, and more.

NEW

Buy InDesign 1.52 & receive FREE Upgrade to version 2*

*Until new version ships. Postage & handling applies Call 1300 550 205 to redeem from Adobe. Conditions apply

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Websearch MAC ..ADO208

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## GRAPHICS

### WordPerfect Office 2002
**Standard Edition**

Discover advanced word processing, spreadsheets and presentations, along with an e-mail client and address book.

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Full Product **$845.00** Websearch Code COR594

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**Professional Edition**

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Upgrade **$575.00** Websearch Code COR597

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### Corel Academic Versions

- Corel Office 6.1 Professional
- Corel Draw 10
- Corel Paradox 9.0 Developers Edition
- Corel Word Perfect Office 2002
- Corel Bryce 5.0
- MAC Corel Graphics Suite10
- Corel Procreate KPT Effects
- MAC Corel Procreate KPT Effects
- Corel Web Master Suite
- Corel Ventura 8.0

COREL

### CorelDRAW 10

CorelDRAW 10 is professional layout and illustration software specifically designed for Mac OS X. With a wide range of content creation tools, innovative vector and raster effects, high-end output and colour management features, and Web capabilities, it integrates into the professional's workflow with ease.

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**What will you make of it?™**

Designed for Mac® OS X. Interactive drawing tools, image-editing features and vector animation software, everything you need for your designs.

- CorelDRAW 10
- Photo Paint 10
- R.A.V.E.

Full Product **$1245.00** Websearch Code COR609

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Backed by a decade of award-winning creative power. Delivers vector illustration, layout, bitmap creation, image-editing, painting and animation software, all in one package. Simplify the design process - whether you're creating for print or for the Web.

Full Product **$1225.00** Websearch Code COR589

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### Corel PHOTO-PAINT 10

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Full Product **$565.00** Websearch Code ..189338

Upgrade **$325.00** Websearch Code ..189339

### Bryce 5

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Experience the next level of creativity with CorelDRAW® Essentials. A perfect balance of power and ease of use, this value-packed suite will help you create spectacular-looking graphics for print or Web. Award-winning graphics, page layout, photo-editing and painting software lets you design images and projects from scratch, or edit existing photos or graphics and add customisable backgrounds and layouts. Experiment without losing your previous work!

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Create amazing special effects once thought virtually impossible. Create dramatic transformations and stunning new illustrations quickly and intuitively with plug-ins such as 3D Transform, ShatterBox, Shadow-Land, WarpFrame and more. Includes over a dozen plug-ins to dramatically extend the creative possibilities of your work.

COREL

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**The No. 1 Photoshop®-Compatible Plug-ins**

Explore fantastic textures, vast fractal vistas, complex 3D objects and endless new permutations of radical image-altering algorithms with KPT® 5, a premier collection of plug-in software tools for Adobe Photoshop and compatible host applications.

COREL

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KPT® 6 is an extraordinary collection of image filters that produce unlimited, spectacular effects for print and the Web. KPT 6 includes 10 plug-ins that extend and enhance the creative possibilities of Adobe Photoshop and compatible products.

COREL

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### Painter 7

Captures the real painting experience. New watercolor and Liquid Ink technologies are highly interactive and lifelike. Plus, Adobe® Photoshop® compatibility, along with hundreds of brush types, art materials and textures, gives you unlimited creative options.

procreate

Upgrade Win/Mac **$485.00** Websearch COR605/607

Full Product Win/Mac **$829.00** Websearch COR604/606

### KPT effects

A natural addition to Adobe Photoshop, it dramatically extends the boundaries of image editing. Hyper Tiling tiles your images into geometrical shapes. Lightning delivers a new level of realism by letting you control every aspect of a lightning bolt. Scatter lets you spread particles over an image to create intricate patterns and textures.

NEW

procreate

**$399.00** Websearch Code....COR612

### KnockOut 2

Part of the procreate™ line of software, KnockOut 2 lets you preserve fine image details that were once impossible to mask precisely. It's an ideal plug-in for Adobe® Photoshop®, speeding up the design process and helping you capture complex imagery such as hair, smoke, shadows, glass, liquid and ice.

NEW

procreate

**$689.00** Websearch Code....COR600



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## GRAPHICS PUBLISHING

## Extensis Portfolio 6

**Find Files in a Flash with Portfolio 6!**

Portfolio is the fastest way for creative professionals to share, organise, retrieve and distribute the digital files they create and use every day. For individual and workgroups alike, Portfolio removes the chaos by taking the grunt work out of organizing files and by providing instant visual access to digital photos, illustrations, scans, and other media files. Portfolio's new FolderSync feature provides seamless integration with your existing file system, so keeping track of projects is easier than ever. New tools such as Create Web Pages, Collect & Publish, and Send via E-mail streamline the process of distributing files over the Internet and on CD.

- Creates stunning visual catalogues of your images that you can share over a network, or publish on the Web.
- Works seamlessly with your existing file system.
- Provides instant visual access to your files from anywhere on your system.
- Lightning-fast search engine can scan multiple catalogues at once to instantly locate your images.
- Collect & Publish copies and catalogues files automatically for CD distribution.
- Build web pages based on your catalogue contents with a few clicks, using professionally designed templates.
- Easily expandable: Just add more copies of Portfolio as your workgroup expands. Macintosh and Windows clients work together seamlessly.

*Site licensing available.*

**$475.00**
Websearch Code ....189580

## Extensis Suitcase 10 and Suitcase 10 Server - for Mac

Packed with automated features that make activating, organising and previewing fonts a snap, Suitcase is the best way to handle fonts for today's creative applications. Suitcase 10 provides true font management for Mac OS X, providing support for OS X as well as Classic applications. If you're serious about your fonts, you need Suitcase 10.

| | | |
|---|---|---|
| Suitcase 10 (Upgrade) | EXT110 | $149.00 |
| Suitcase 10 (5 pack) | 189055 | $999.00 |
| Suitcase 9 Desktop WIN | EXT104 | $199.00 |
| Suitcase 9 Network WIN | EXT106 | $299.00 |

Suitcase 10
**$215.00**
Websearch Code ....EXT108

Suitcase 10 Server
**$2089.00**
Websearch Code ....EXT109

## Fontastic Bundle

- GraphicConverter, Quickly open and convert graphic file types for easy editing.
- FontBook, Display and print all your fonts.
- Plazm Media Fonts, these are the cool designer fonts you yearn for. Plazm is known for their unique collection of boutique fonts. Now they can be yours, 10 fonts included!
- Nik Type Efex, Stunning 3D text and font effects for Photoshop. Create effects such as Burning Text, Water, Red Metal, Snow Capped Text, and more!
- Suitcase 10 the best solution for true font management. Mac-ONLY bundle.

TOTAL VALUE $1700
**$469.00**
Websearch Code ....EXT130

## Visioneer PaperPort Deluxe 8

The world's #1 paper management software is even better! The easiest way to turn paper into organised digital documents that everybody in your office can quickly find and use. Manage scanned documents along with all your other electronic documents in one convenient and easy-to-use filing system on your computer or network. PaperPort's thumbnails allow you to visually organize, retrieve, and use your scanned documents, Word files, spreadsheets, PDF files and digital photos.

**$220.00**
Websearch .....189075

## iGrafx FlowCharter 2000 Professional

iGrafx FlowCharter 2000 Professional gives you structured diagramming power with unique built-in intelligence, providing invaluable new ways to visualise solutions for real-world business problems. iGrafx FlowCharter makes it easier than ever to diagram business processes, networks, organisational structures, web content, and much more. Superior business-oriented functionality includes seamless Microsoft Office compatibility, robust HTML support, and powerful VBA 6.0 extensibility, as well as network-enabled application deployment, media management, and collaboration tools.

Full Product
**$675.00**
Websearch Code ....111027

## Designer 9

**Everything you need for technical illustration, image editing and web graphics**

Providing precision drawing and versatile publishing tools along with 55+ import/export filters including CAD, Adobe PDF and Macromedia Flash. Also included, Picture Publisher 9 is an innovative professional image-editing application with incredible visual effects and functionality.

COREL

**$875.00**
Websearch Code ..MGF121

## OmniPage Pro V11

The new OCR Engine - combines OmniPage Pro, WordScan Plus and Recognita Plus. The result? Less editing, less proofing and less work. It also incorporates additional dictionaries that increase accuracy recognition, reducing the number of errors by 30% on average.

- OmniPage Web Personal Edition included
- Simplified User Interface
- New Caere Scan Troubleshooter
- Windows® 2000 Certified

Upgrade
**$335.00**
Websearch Code ..OMN120

Full Version
**$1099.00**
Websearch Code ....189214

## Picture Publisher 10 Digital Camera Edition

Manage, correct, enhance, create, and publish your digital pictures quickly and effectively with Picture Publisher Digital Camera Edition -- the perfect companion for your digital camera. Affordable yet powerful, Picture Publisher is ideal for small businesses and freelance artists that need to create high-impact graphics for print, presentations and the Web. As an essential component of any digital darkroom, you can use one-click macros to enhance and correct your pictures, apply one of many artistic special effects to turn your photo into a work of art or use PhotoAlbum to effectively manage, enhance and batch process your photos.

**$109.00**
Websearch Code ....189281

## Picture Publisher 10 Professional

Picture Publisher 10 Professional is the premier easy to use solution for professional image processing and management from start to finish. Enhance pictures using powerful editing tools or get creative with extensive special effects, wizards, and macros. Fully enabled 64 bit CMYK and 48 bit RGB image resolution support, alongside the Kodak Color Management System, ensures that your images are always of the highest quality. If you're publishing for to the Web, Picture Publisher has a complete toolset to optimize your images for your Web audience. Also included is the new PhotoAlbum, featuring helpful batching and indexing tools that make image management easier and faster.

**$315.00**
Websearch Code ....189282

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### MS SQL Server 2000 Standard & 5 Clients

Relational Database Management and Analysis System.

SQL Server 2000 introduces a host of innovative features. Great support for Web standards, powerful tools for system management and tuning, and exceptional scalability and reliability for your money make SQL Server 2000 the best choice for the next generation of enterprise-class database solutions.

**$3245.00**
Websearch Code....MSS649

### Trellian SubmitWolf 5

**Promote your Website! Increase your Traffic!**

SubmitWolf PRO is an easy to use, professional website promotional tool, which automates the process of promoting your web pages on the internet. It can dramatically increase the number of visitors to your web site. SubmitWolf PRO can automatically register your website with thousands of Search Engines and directories PLUS over 500000 link pages.

**How does it work?**

Simply enter your website details into SubmitWolf PRO, select the search engines where you would like to be listed and SubmitWolf PRO will do the rest. SubmitWolf PRO automatically visits each engine, downloads the regisration form, fills it in for you, then submits it. Manually this can take months.

System Requirements: Win 95/98/ME/NT/2000/XP

**$125.00**
Websearch Code ....130006

### Trellian eComm Store

**Create your own eCommerce Store in MINUTES!**

eComm STORE has been specially designed to cater for eCommerce projects no matter how large or small. Create your own store on the Internet, complete with images, product descriptions, eCommerce enabled shopping cart and secure on-line transactions, all from one easy to use software package. Inventory facilities include product naming, coding, weight, freight and tax calculation as well as product categorization through the inventory tree. Any updates to new products and services can be immediately implemented. eComm STORE will work with any Internet service provider where web hosting is available, and can be easily incorporated into an existing website. Import databases easily. No setup or transaction fees. Secure Server Order Hosting, $29.95/month.

System Requirements: Win 95/98/ME/NT/2000

**$49.00**
Websearch Code ....130908

### Trellian Button Factory

**Professional Website Graphics in MINUTES!**

With Trellian Button Factory you can quickly and easily create stunning buttons, menus, logos and icons for use on your website or multimedia presentations. No previous graphic design experience required. Just use your imagination to create original web graphics that stand out on the Internet.

Trellian Button Factory comes complete with in-built libraries, giving you a range of options to tailor your needs, also taking the hard work out of creating quick professional web graphics. Use the existing library to customize style, size, shape and color or let Trellian Button Factory help you create new templates.

System Requirements: Win 95/98/ME/NT/2000

**$65.00**
Websearch Code ....130187

### Trellian FTP

Trellian FTP is a file transfer client that allows you to transfer files between your PC and any FTP server on the Internet. It comes complete with a list of the most popular FTP sites so you can access drivers, shareware and other software via the Internet. Trellian FTP is the next generation of FTP clients, providing many advanced features such as Drag and Drop file transfer, Multi-Site Download and Connection Hammer.

Trellian FTP allows you to quickly and easily upload your website to the Internet. The Compare feature lets you see at a glance which files have been updated or are missing and will upload them with the click of a button. Trellian FTP also stores your web host's profile to make future uploads a breeze. System Requirements: Win 95/98/ME/NT/2000

**$65.00**
Websearch Code ....130188

### Ulead PhotoImpact 7

PhotoImpact 7 is everything you need for digital photography, creative design and Web graphics.

- Quality Photo Enhancement
- Easy Photo Sharing
- Exclusive 3D Composition
- Interactive JavaScript Effects
- Advanced Camera Filters
- Extensive Raster & Vector Tools
- Complete Web Toolkit
- Visual Web Page Layout

Upgrade
**$149.00**
Websearch Code ....130961

Full Product
**$245.00**
Websearch Code ....130960

### Ulead MediaStudio Pro 6.5

• Capture and view original source video from VCRs, TVs, laserdiscs or camcorders. DV with IEEE 1394 technology lets you easily plug your DV/D8 camcorder into your computer for convenient video capture from within MediaStudio Pro. • Batch capture, Scene Detection, Seamless Capture, and color calibration save time and ensure high-fidelity color. • Native DV with IEEE 1394 (FireWire) lets users transfer high-quality Digital Video convenient and fast. • Supports V-LAN, MCI device control Plug-and-Play Any device using the VFW and WDM standards will work automatically.

• Supports DV file capture Scene Detection. When capturing users have the option to automatically split their footage into several files. Seamless Capture allows users to capture a continuous DV video stream beyond 4 GB by multiple files automatically.

• Post-capture trimming enables quick removal of any unwanted video.

Full Product
**$1049.00**
Websearch Code ....ULE022

### Ulead VideoStudio 5.0 DVD Edition

**Movie-Making for Everyone**

Introducing the FIRST easy-to-use video editor with DVD authoring capabilities: this special edition has all the perks of VideoStudio 5.0 PLUS the Ulead DVD Plug-in, letting you create VCD, SVCD or DVD format movies on CD-R/RW.

NEW

Upgrade
**$215.00**
Websearch Code....ULE018

Full Product
**$335.00**
Websearch Code ....ULE017

### Ulead DVD MovieFactory

With Ulead DVD MovieFactory easily author home movies to CD or DVD, with its simple wizard-style authoring process.

ULEAD CREATIVE INTELLIGENCE

**$125.00**
Websearch Code ....189073

### Ulead Photo Explorer 7.0

Ulead Photo Explorer 7.0 is the complete solution for the digital photography enthusiast. Photo Explorer combines easy-to-use tools for acquiring, viewing, organizing, adjusting and sharing digital images and video clips.

ULEAD CREATIVE INTELLIGENCE

**$85.00**
Websearch Code ....130836

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Sales lines open:
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* See our Terms & Conditions on page 2.



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**Now including Fireworks 4, ColdFusion Studio 5.0 and JRun Studio 3.0!**

Rapidly build database-driven Web applications for industry standard servers and databases and maintain total control over source code with a professional hand-coding environment. Rapidly develop sophisticated e-business JSP, ASP and ColdFusion Web applications.

HOT OFFER!

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|---|---|
| $675.00 | $1339.00 |
| Websearch Code..MAC427 | Websearch Code..MAC428 |

## Macromedia Web Design Studio

**With Dreamweaver, Fireworks, Flash and Freehand, the Macromedia Web Design Studio is the complete solution for professional Web site design.**

Go from concept to completion faster than ever before! With Dreamweaver, Fireworks and Flash, Macromedia makes it easy to build a world-class Web site. Tight product integration lets you efficiently design, edit and optimise graphics for the Web in Fireworks, then seamlessly integrate with DreamWeaver to produce and manage your site. Finally, use Flash to add animations, interactivity and sound to produce a high-impact site that plays back smoothly, even over low-band width.

| Upgrade | Full Product |
|---|---|
| $869.00 | $1599.00 |
| Websearch Code ..MAC391 | Websearch Code MAC390 |

## Macromedia Director 8.5 Shockwave Studio

The solution for developing magnetic destination content and interactive media on the Web, CD/DVD-ROMs and corporate intranets - including 3D entertainment, interactive product demonstrations, and online learning applications, high performance multi-protocol, RealMedia support, and Shockwave Multi-user Server. Enables developers to add collaborative multimedia to their web sites easily and immediately.

FREE copy of Ray Dream Studio 5.5 Limited stock

| Upgrade from 8.0 | Full Product |
|---|---|
| $464.00 | $2229.00 |
| Websearch Code....130534 | Websearch Code..MAC411 |

From November 15th until the end of February all Macromedia Commercial, Education and Upgrade boxed products will also get a 3CD Training Pack from Centennial Media valued at $259 (SEE sticker on pack for details).

## Macromedia Dreamweaver 4

Create a professional web site whether you prefer to work with familiar visual layout tools or demand the control of a robust text-editing environment. Macromedia user interface makes it easy to create and manage your site, while robust text-editing environment gives hand-coding professionals the control they demand.

| Upgrade | Full Product |
|---|---|
| $339.00 | $660.00 |
| Websearch Code..MAC376 | Websearch Code..MAC375 |

## Macromedia Fireworks 4

Create, edit and animate Web graphics with a complete set of bitmap and vector tools. Add advanced interactivity and optimise images in a robust, professional environment. Use configurable export controls to export images and interactivity into Dreamweaver and other HTML editing environments. Launch and edit graphics between Dreamweaver, Macromedia Flash™ and all Macromedia Products for efficient workflow.

| Upgrade | Full Product |
|---|---|
| $339.00 | $669.00 |
| Websearch Code..MAC378 | Websearch Code..MAC377 |

## Macromedia Flash 5

Produce engaging experiences that attract and excite Web users. A familiar and intuitive interface makes it easy while powerful scripting, input forms, and server-side connectivity allows developers to create advanced web applications. Integrated web production through connectivity with Macromedia Dreamweaver, Macromedia Fireworks and Macromedia Freehand.

| Upgrade | Full Product |
|---|---|
| $360.00 | $869.00 |
| Websearch Code..MAC340 | Websearch Code..MAC339 |

## Macromedia FreeHand 10

FreeHand 10 offers graphic designers unsurpassed productivity features like Master Pages and the new Macromedia User Interface plus sophisticated vector-based illustration tools like Contour Gradients and Symbol-based Brush Strokes for easily creating advanced patterns and designs. Create once, then publish across multiple mediums including, print, Web and beyond.

| Upgrade | Full Product |
|---|---|
| $349.00 | $875.00 |
| Websearch Code ....189053 | Websearch Code ....130560 |

## STUDENT PRICING NOW AVAILABLE

Student editions of Macromedia Dreamweaver, Fireworks, Flash and Freehand are now available at $119 each. This product is only available to high school* and tertiary** students. Teachers, educational institutions and non-profit organisations still need to purchase the full educational copy. The student version will have different packaging and will only include the CD and registration card. It does not include a printed manual.

**High school students require a letter from the school or principal.*

***Tertiary students must send a faxed copy of student ID.*

| Per Product |
|---|
| $119.00 |

## Macromedia HomeSite 5

Empowers professional developers to build reliable Web sites in less time. Advanced coding features enable you to instantly create and modify HTML and XHTML tags while enhanced productivity tools allow you to more easily validate, reuse, navigate, and format your code. Configure HomeSite to fit your needs by extending its functionality and customising the interface.

| Full Product | Upgrade |
|---|---|
| $225.00 | $80.00 |
| Websearch Code ....189225 | Websearch Code ....189280 |

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## CRM OFFICE/APPS

### MS Flight Simulator 2002

One of the most popular, realistic and detailed flight simulators on the market, used by actual student pilots. With new aircraft. Pro version also available.

**$89.00**
Websearch Code ....MSS691

### Microsoft Age of Empires Collectors Edition

Includes full versions of ALL the games in the Age of Empire series.

**$109.00**
Websearch Code ....MSS689

### Microsoft Train Simulator

Experience the excitement of trains on your PC. Take the controls from the engineer's cab with 6,000 tons of freight behind you and exciting challenges ahead.

**$99.00**
Websearch Code ....130576

*The ultimate tool for managing and growing your business relationships.*

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World Class Award Winner for
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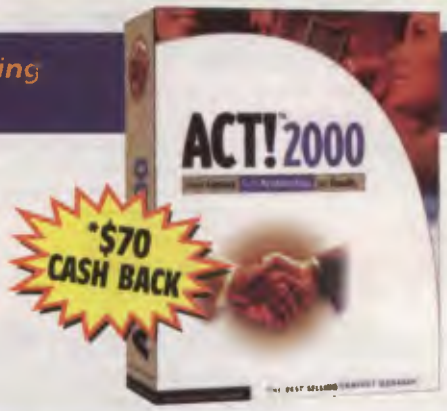



**Sell more with the easiest, best-selling contact manager**
Created by salespeople for salespeople, ACT! thinks just like you do. Just install it and away you go! Forecast and track sales opportunities like never before! Even tap into the built-in sales tips and expertise offered by Dale Carnegie Training to help you close more sales.

**Make your customers feel like they're the only one**
When your customers call, they deserve the most personal attention. With ACT!, you can keep a complete history of every conversation, every activity - even meeting notes. Even attach proposals, emails, faxes, or memos right to their records so you'll be completely and instantly informed when they call.

**Keep important details from slipping through the cracks**
See all of your appointments and tasks in a daily, weekly, or monthly calendar format. Then save information like driving directions and meeting agendas right to an appointment on your calendar. Set reminders and print your calendar – and you'll never forget a thing!

**Reach contacts no matter where you are**
Download your latest contact information – like names, numbers, and activities – from ACT! right into your Palm. Or use FoneSync to transfer up to 250 names and numbers to your cellular phone. So you can stay as effective on the road as you are in the office.

*Pricing after $70 Rebate from Interact Commerce Corporation. $70 Rebate is available for single user ACT! 2000 only. Refer to box for details. Offer ends March 31st, 2002. Conditions apply.*

ACT Single User
***$159.00**
Websearch Code ..SYM223

ACT 6 Pack
**$1149.00**
Websearch Code ....189068

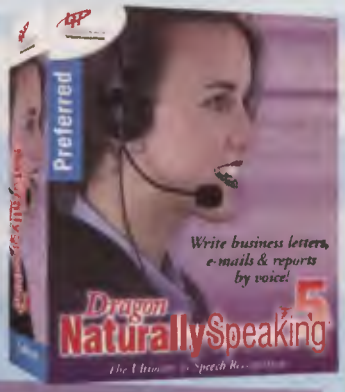
## Dragon NaturallySpeaking Mobile v5

Now you don't need your laptop to create reports and presentations when you're on the move! Simply speak naturally into the palm-sized digital recorder, whether you're sitting in a waiting room, riding in a cab from the airport, or commuting on the train. When you're at your PC, plug the recorder in, and the software transcribes your recorded speech automatically. With the included award-winning Dragon Naturally Speaking Preferred v.5 software, you can edit and format documents in virtually any Windows® application hands-free!

**$559.00**
Websearch Code ..DRG001

## Dragon NaturallySpeaking Preferred v5

With Dragon NaturallySpeaking Preferred v.5 you can create, edit, and revise documents and email - even surf the Web-entirely by voice. Just speak, and your words appear in business letters, reports, e-mails and virtually all Windows®-based applications. Dragon NaturallySpeaking Preferred makes it easy to edit and format text-even change fonts, colours, and sizes-by voice! Insert phrases and paragraphs with only a few words. Listen to text and email read aloud by replaying your recorded speech. You can even browse the Web-hands-free.




**Bonus**
Kensington laptop bag & Kensington Mouse

**$285.00**
Websearch Code ..DRG002



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## AutoCAD LT 2002

AutoCAD LT® 2002 is the only 2D CAD program providing 100-percent DWG compatibility with AutoCAD® 2002- based products. That means you can open, edit, and exchange drawing files (DWGs) with complete confidence. A comprehensive Internet toolset streamlines collaboration between design team members-shortening cycle times and reducing costs. Plus new enhancements like automated associative dimensioning help you create quality designs more efficiently.

Upgrade **$449.00** Websearch Code....AUT481

Full Version **$1799.00** Websearch Code....AUT482

Educational pricing available

## AutoCAD 2002

With AutoCAD® 2002, you can get your design information where it's needed- quickly, easily, and accurately. Its design collaboration tools help you maximize the value of your design data-by sharing files, accessing design resources, and meeting in real time with the entire project team. With powerful features such as CAD standard management tools, associative dimensioning, new Object snaps, 3D Orbit and more, AutoCAD® 2002 will help you create quality designs more efficiently giving you that strategic competitive advantage.

*Upgrades also available for AutoCAD 2000 and AutoCAD 2000i. Call for pricing.*

Full Version **$7199.00** Websearch Code....AUT483

## Volo View 2

Volo™ View 2 software is a cost-effective, easy-to-use digital design viewing solution that lets everyone on your team electronically review, mark up, measure, and plot AutoCAD® and Autodesk Inventor™ based drawings. *Upgrades available, call for pricing.*

**New Version** **$385.00** Websearch Code....AUT488

## AutoSketch 8

An affordable and easy-to-use precision drawing tool for new or occasional CAD users who need to create conceptual drawings and sketches. It provides productivity and ease of use features not found in other low cost precision drawing programs. From concept sketches, information graphics and floor layouts to presentations, electrical drawings and home project plans, you can draw it all - quickly and accurately.

**New Version** **$249.00**

## QuickCAD 8

QuickCad is the most affordable design program that Autodesk offers, but its low price doesn't diminish its capabilities. It comes with plenty of productivity features that let you make technical designs and diagrams. With its short learning curve, QuickCAD lets you start drawing right away by offering a simple beginner interface, then as you grow familiar with its capabilities, you can change to advanced or expert levels.

**New Version** **$99.00**

## Student Versions $275

AutoCAD 2002 | Autodesk Architectural Desktop 3.3 | Autodesk VIZ 4 | Autodesk Inventor 5 | Autodesk Mechanical Desktop 6 | Autodesk Land Desktop 3

## DATABASE

### Symbols 2000 Architectural

A professional collection of more than 5,600 architectural symbols that let you complete detailed floor plans and construction documents dramatically faster. The package includes symbols for external layouts (bushes, trees, people), plan views, elevations and sections, electrical installation, building services/HVAC (plumbing, ventilation), kitchens, bathrooms, office furniture, network planning, pictograms for recreation, sports organisation and planning.

**$149.00** Websearch Code ....130191

### Symbols 2000 Engineering

A collection of more than 10,000 symbols in total, covering symbols for manufacturing and schematics drawings. The set includes more than 3,100 symbols for electrical schematics and installation plans complying with IEC standards with symbols for switching equipment, generation and conversion of energy, telecommunications and electrical installation.

**$149.00** Websearch Code ....130331

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ACCOUNTING

# MYOB Move your business forward

**MYOB accounting and business management software is trusted by over 300 000 Australian businesses.**

## Made in Australia for Australian business conditions.

MYOB software is written and produced in Australia for Australian business conditions, and is designed to take the stress and complexity out of managing your business, the GST and the BAS.

**The complete business solution**

MYOB provides a range of support options to help you make the most of your MYOB software, including 30 days of free introductory telephone support, access to web-based Support Notes, an optional year-round support program, and a range of training options to help you or your employees get up to speed.

**The business software family that'll always be there for you**

Whatever the size of your business, MYOB offers a range of accounting and business management solutions to suit your needs. And if your business situation changes – through growth, legislation changes or technology advances – MYOB will be there for you.

**Go direct to *www.iswh.com.au/myob***

## MYOB Pocket Accounts

MYOB PocketAccounts, a handheld sales and time billing program that helps businesses with a mobile sales or consulting force improve their efficiency and cash flow.

MYOB PocketAccounts runs on a Palm OS(r) device and links seamlessly with MYOB accounting software on the desktop, allowing users to synchronise their entire day's data at the push of a button.

**$199.00**
Websearch Code ..MYO044

## MYOB RetailManager v5

*Retail point-of-sale management*

Designed specifically for the Australian retail environment, MYOB RetailManager replaces the cash register with a point-of-sale system that streamlines store operations, manages sales, stock, GST, staff and customers, and produces critical reports across a wide range of business activities.

- Fast, flexible sales processing
- Simplified stock control
- Streamlined stocktaking procedures
- Easy to use and understand
- Retail-specific business analysis
- Stand alone or integrate with select MYOB software

**$1285.00**
Websearch Code ..MYO037

## MYOB FirstAccounts v3.5

*Basic accounting and business management*
*Ideal for tradespeople!*

FirstAccounts is a basic first accounting system for small owner-operators who need to keep on top of their accounting obligations and want to add a business management edge – but without the expensive overheads of a full back office.

It's easy to understand and full of features that keep the amount of time you spend on your accounts to an absolute minimum. You don't get lost in the details, and you don't get tied to a desk – you just process your accounts and get straight back to running your business.

- Cut back your paperwork
- Streamline your accounts
- Understand your business
- Track your GST

**$199.00**
Websearch Code ..MYO035

## MYOB Accounting v11

*Integrated business management*

MYOB Accounting is for businesses that need to streamline accounts procedures and would benefit from improved inventory management, better management of customer and supplier relationships, and advanced business reporting.

- Streamline accounts procedures
- Comprehensive business management
- Powerful inventory management
- Contact management

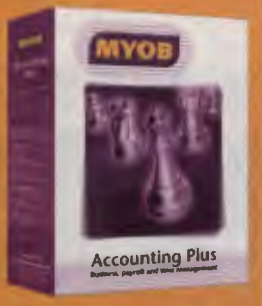
Upgrade **$199.00** Websearch Code ..MYO041

Full Product **$355.00** Websearch Code ..MYO038

## MYOB Accounting Plus v11

*Business, payroll and time management*
*For employers*

MYOB Accounting Plus is for businesses that need to streamline accounts procedures and would benefit from improved inventory management, better management of customer and supplier relationships, advanced business reporting, and automated payroll or time billing.




***Fully integrated payroll***

Process pays, PAYG and employee entitlements with a few mouse clicks – pay by cash, cheque or electronically.

***Professional time billing***

Automatically track the costs and charges of every business activity.

Upgrade **$269.00** Websearch Code ...130562

Full Product **$499.00** Websearch Code ..MYO039

## MYOB Premier v5

*Powerful multi-user business management software*

MYOB Premier is for businesses that need to streamline accounts procedures, whether through simplifying complex inventory issues, running an automated payroll, time billing, accessing advanced reporting or increasing productivity with multi-user access.

Premier's combination of productivity-enhancing features will appeal to any business that has complex inventory requirements, works with more than one currency, or requires multi-user access.

*"...you'll find it to be the most affordable and user-friendly multi-user software available, as well as coming with fantastic support, training and documentation."*
*- Australian PC World, June 1999*

**$1049.00**
Websearch Code ..MYO040



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## Quicken Personal 2002

Quicken Personal 2002 is the easiest way ever to manage your personal finances. Developed for Australia, Quicken Personal is the world's best selling financial management software making it very quick and easy to:

- Track your family income and expenditure
- Manage your investments and share portfolio
- Track your credit cards, bank accounts, loans and savings goals
- Prepare tax returns in minutes
- Link with the ASX to automatically update your share portfolio.

Personal 2002
**$75.00**
Websearch Code ...QUI202

**FREE*** copy of Quicken ShareAnalyser

*"It's time to get Personal with Quicken Personal Plus 2002!"*

Reduce your debt faster and pay less interest with the Debt Reduction Planner • Create strategies to help you save and build wealth with the Save More Planner • Keep up-to-date records using the financial address book and free form emergency record organiser • Keep track of your home and contents with Quicken Home Inventory Activate tax specific alerts to notify you of upcoming deadlines

**FREE copy of Quicken ShareAnalyser (RRP $199.95) for every copy of Quicken Personal Plus 2002 purchased till 31st March 2002. Conditions Apply - Original proof of purchase, original barcode cut from box and delivery details required by Quicken to honour this offer. (Valid on full versions only). Conditions apply.**

LIMITED OFFER

*Offer valid till 31/3/2002.

Personal Plus 2002
**$115.00**
Websearch Code ....QUI200

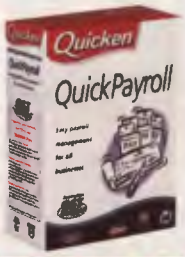
Personal Plus 2002 Upgrade
**$89.00**
Websearch Code ....QUI201

## QuickPayroll 8

Payroll management gives you the ability to comply with the latest reporting requirements brought about by the GST.

- Track employee leave, pay and superannuation details.
- Work with a flexible Award interpretation system.
- Print payroll outputs.
- Electronically lodge payment summaries on ATO stationery.

QuickPayroll v8 links with QuickBooks v8 software to transfer payroll information directly into the company's accounts.




**$349.00**
Websearch Code ...QUI193

## QuickBooks and QuickBooks Pro 8

Designed especially for small and medium businesses with double entry accounting needs, QuickBooks is GST Easy, QuickBooks' GST management technology, plus the simple set-up and ease of use, sets the product apart from the rest. Getting started and then using QuickBooks on a day-to-day basis is easy, with simple navigation, lay out and easy to use features. QuickBooks offers the ability to tailor the product more specifically to your requirements, such as choosing cash only or accrual double entry accounting.

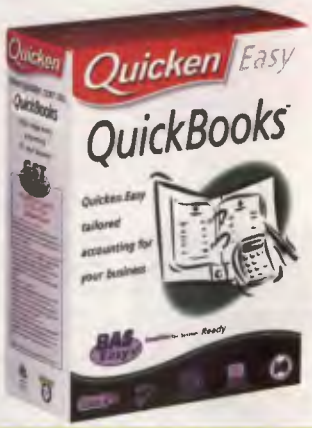
**New features in Version 8**

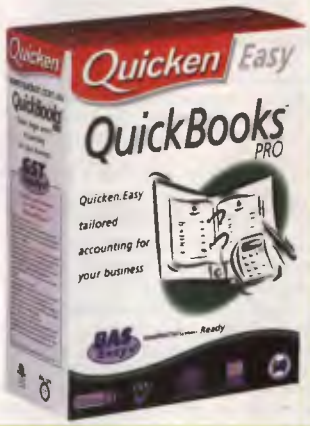
- Tear off Remittance advice
- STS ( simplified tax system ) depreciation register
- MYOB Data converter
- Accounts Data Transfer ( for Solution 6, & Xlon packages)
- Credit Advantage ( speedy credit checking )
- Instalment Activity Statement
- Improved Business Activity Statement ( BAS )
- Online backup ( free 30 trial )

**Includes cashback voucher for those upgrading from previous selected versions of QuickBooks and QuickBooks Pro.**

QuickBooks
**$224.00**
Websearch Code ...QUI166

QuickBooks Pro
**$389.00**
Websearch Code ...QUI169




## QuickTrack Solutions V3

**QuickBooks goes mobile!**

Have you caught up with the changes in the mobile business management and accounting solutions sector? QuickTrack Solutions software runs on your Personal Digital Assistant allowing you to run your business from the palm of your hand, wherever you may be. With QuickTrack you can prepare and print the invoice and hand it to your customer on site with your handheld PC!

*Palm for illustration purposes only.*

**$265.00**
Websearch Code ....130907

## Quicken CashBook

BAS Easy

CashBook is a single entry cash accounting package for small businesses. This package will easily manage your business finances. CashBook uses single entry accrual accounting. CashBook also monitors sales, controls production, stores customer and supplier records and logs customer enquiries.

**CashBook features include:**

- Producing quotes, work orders and invoices
- Managing work in progress and updating job records
- Accounts receivable and payable tracking
- GST management for tracking inputs and outputs for the relevant tax codes (except Wine Equalisation Tax)
- Producing the information needed for Business Activity Statements
- Tracking bank balances and printing cheques

**$174.00**
Websearch Code ...QUI175

## QuickPOS with QuickBooks Pro

QuickPOS 2001 is the answer to a simple, computerised cash register. This makes QuickPOS very easy and fast to use with minimal training required. QuickPOS will track your sales, inventory, employees, accounts receivable and chart of accounts with the press of a button. Complete all the task's your'e used to with your manual cash register and more.

**New features in Version 4**

- Customisable end of day processes
- Blind cash drawer reconciliation
- Global Management Overide
- Web Browser
- Change prices straight from QuickPOS
- Random Price Barcodes
- Integrated Eftpos (no more double keying)
- Currency conversion (accept any currency or travellers cheques)
- QuickPOS now supports Touch Screen

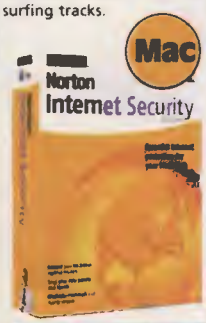
**$1569.00**
Websearch Code ...130468

**COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!**

## UTILITIES

### Norton Internet Security 1.0

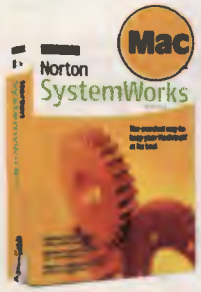
Norton Internet Security for Mac 1.0 is the first Internet security suite to offer a comprehensive solution with protection against Internet threats such as hackers, privacy intrusion and viruses. Combines Norton Personal Firewall for Macintosh 1.0, Norton AntiVirus for Macintosh 7.0, and iClean by Aladdin Systems, a desktop cleaning tool that sweeps away Web surfing tracks.




**$135.00**
Websearch Code ..NOR224

### Norton SystemWorks

This essential suite features the following; Norton Utilities helps you repair and optimise disks, recover lost data, and prevent future problems. Norton AntiVirus finds and repairs infected files to keep your data safe and secure. Aladdin Spring Cleaning safely removes old programs and Internet clutter. Dantz Retrospect Express Backup copies files quickly and easily to a wide range of removable media.




**$189.00**
Websearch Code ..NOR227

### Norton SystemWorks 2002 Professional

**$125** after Upgrade Rebate*

**The complete problem-solving suite for advanced users and small businesses.**

Norton Utilities™ 2002 optimizes your PC's performance. Norton CleanSweep™ 2002 cleans out Internet buildup. Norton Web Services™ – powered by ZDNet Updates – and Symantec Web Partners offer convenient online services. Norton Ghost™ 2002 provides fast system upgrading and backup. And WinFax™ Basic Edition lets you send, receive, and manage faxes.

** $40 rebate coupon in box for previous customers of Norton SystemWorks, Norton AntiVirus, Norton Utilities, Norton CrashGuard, Norton CleanSweep, Norton Ghost Personal, Norton Internet Security.*

**$165.00**
Websearch Code ..NOR405

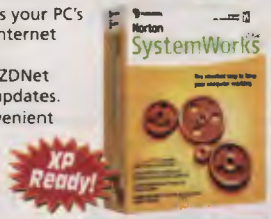
### Norton SystemWorks 2002

**$95** after Upgrade Rebate*

**The smartest way to keep your computer working!**

- Norton Utilities 2002 keeps your hard drive organized efficiently, diagnoses and solves a wide range of Windows problems.
- Norton CleanSweep 2002 improves your PC's by safely and easily cleaning out Internet buildup and other unneeded files
- Norton Web Services-powered by ZDNet Updates-gives you easy access to updates.
- Symantec Web Partners offer convenient access to a variety of online services for PC problem solving and system protection.

** $30 rebate coupon in box for previous customers of Norton SystemWorks, Norton AntiVirus, Norton Utilities, Norton CrashGuard, Norton CleanSweep, Norton Internet Security.*




**$125.00**
Websearch Code ..NOR406

### Norton Internet Security Professional Edition

This integrated suite starts with Norton AntiVirus™, the world's most trusted anti-virus solution. Norton™ Personal Firewall defends against hackers. Norton™ Intrusion Detection automatically intercepts suspicious connections. Norton™ Productivity Control manages Internet usage by blocking selected sites and newsgroups. The User Access Manager helps you define individual Internet access privileges for everyone in your workgroup. Norton™ Privacy Control keeps your sensitive information private. And Symantec™ AntiVirus for Palm OS® protects your handheld devices.

**$149.00**
Websearch Code ...189472

### Norton AntiVirus 2002

**Protect your PC with the world's leading anti-virus software.**

- Antivirus protection that is always up to date
- Auto-updating feature that will automatically sense an open Internet connection and check/retrieve any available updates for virus definitions
- Maximum protection from Internet and email viruses with a global response team of antivirus experts watching out for you
- Reduced size of downloadable files
- Bootable CD for emergency
- "Undo" Functionality to Boot Sector repairs

**$85.00**
Websearch Code ..NOR401

### Norton Internet Security 2002

Norton Internet Security™ 2002 Scans and cleans both incoming and outgoing email updates itself automatically over the Internet and defends against script-based viruses such as "ILoveYou" and "Anna Kournikova" even between virus definition updates. Norton™ Personal Firewall blocks hackers' intrusions. Norton™ Privacy Control helps you keep email addresses and credit-card numbers secure and control which sites track your activities with Internet "cookies." Norton™ Parental Control keeps your children safe on the Internet. It includes a comprehensive customizable list of objectionable sites and lets you set up different Internet access privileges for each person in your household.

**$95** after Upgrade Rebate*

**$20 rebate coupon in box for previous customers of Norton InternetSecurity, Norton AntiVirus, Norton Personal Firewall or Norton SystemWorks. 5 user pricing available.*

**$115.00**
Websearch Code ..NOR413

### Norton AntiVirus Professional Edition

Norton™ AntiVirus Professional Edition has advanced data protection for both PCs and Palm OS® devices. It repairs common virus infections automatically, without interrupting your work. It scans and cleans both incoming and outgoing email and defends against script-based threats such as the "I Love You" virus. Symantec™ AntiVirus for Palm OS® provides essential virus defense for your PDA with a compact yet powerful application that's easy to install and keep updated via HotSync™. Norton™ AntiVirus Professional Edition also includes special software to help you protect and recover sensitive files.

**$119.00**
Websearch Code ...189470

### Back to Business bundle

Norton SystemWorks & Norton Personal Firewall

**$159.00**
Websearch Code ....189376

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## Norton AntiVirus 2002 5 User Pack

Norton AntiVirus 2002 Multi-user pack provides essential virus protection for the small business to licence up to five workstations. It's always working in the background to protect your PC, and now it automatically updates its virus definitions when you're connected to the Internet. Don't let your company fall victim to viruses or other malicious Internet code.

Supports Windows® XP/2000/NT/98 Workstations.

**$259.00**
Websearch Code ..NOR419

## Norton Personal Firewall 2002

**Norton™ Personal Firewall 2002 is your maximum defense against hackers.**

Monitors all Internet connections to and from your computer and alerts you to attempted intrusions-including port scans. Automatically block any system trying to probe your PC, as well as prevent personal data from being sent to web sites without your knowledge. Protect information such as credit cards or social security numbers from unsecured web sites.

**$79.00**
Websearch Code ..NOR403

## pcAnywhere 10.5

XP Ready!

pcAnywhere™ is the No.1 seller for fast, easy access to any PC. If you need to work from home or on the road, pcAnywhere lets you connect to your office PC to retrieve files or run desktop applications. If you're an IT professional, pcAnywhere lets you remotely support users and manage servers effectively.

For Windows® 95/98/NT/2000/ME/XP

**$245.00**
Websearch Code ....189237

## pcAnywhere 10.5 Small Business Solution 5 Pack

XP Ready!

*Includes 1 remote and 5 host licences*

pcAnywhere is a comprehensive remote control and file transfer solution for telecommuters and IS/IT professionals. Access up to five remote computers. pcAnywhere v10.5 offers extensive security measures to ensure remote control hosts are correctly configured for maximum protection. The many customizable features allow you to configure pcAnywhere to meet your needs.

For Windows® 95/98/NT/200/ME/XP

**$499.00**
Websearch Code ....189239

## Norton AntiVirus 7.6 Small Business Solution for 5, 10 or 25 Users

For small managed networks consisting of 1 server and workstations, Norton AntiVirus 7.6 Small Business Solution for 5, 10 or 25 Users, provides automated, centralised virus protection and management. Additional server or workstation licences may be purchased through the Symantec Value Licence Program. For Netware 3.13, 3.2, 4.11, 4.2, 5.X; WinNT v4/2000 Server; Os/2 client; DOS, Win3x; Win95/98; WinNT v4/2000 & Macintosh.

5 or 10 or 25 USER PACKS

| 5 User Pack | 10 User Pack | 25 User Pack |
|---|---|---|
| $649.00 | $1115.00 | $2465.00 |
| Websearch Code ...189541 | Websearch Code ...189542 | Websearch Code ...189543 |

## Norton Utilities 2002

Norton Utilities 2002 optimizes your PC's performance and solves system problems easily. Now Windows NT, Windows 2000 and Windows Millennium users can keep their PCs running at peak performance and fix recurring problems. It also diagnoses and solves a wide range of problems. Run Norton Utilities continuously in the background to detect potential disk and system problems.

**$89.00**
Websearch Code ..NOR415

XP Ready!

## Norton Ghost 2002

Norton Ghost 2002 provides high-performance utilities for fast and safe system upgrading, backup, and recovery. This new version supports the Linux EXT2 file system, writes disk images directly to many popular CDR/RW drives, clones quickly from PC to PC, and enables Windows 2000 and Windows Millennium users to take advantage of its powerful tools.

- 5 user pricing available

**$129.00**
Websearch Code ..NOR411

XP Ready!

## WinFax Pro 10.02

WinFax PRO 10.02 is the #1 choice for sending, receiving and managing faxes*. Easy to set up, learn and use. Integrates with your key business applications. Version 10.02 lets you send and forward faxes via email. When image clarity is vital, you also have the option of sending photo-quality faxes. For simplified project management, store faxes in the folders of your choice.

** Telephone connection needed.*

**$125.00**
Websearch Code ...189352

XP Ready!

## CleanSweep 2002

Clean out Internet buildup with award-winning Norton CleanSweep from Symantec. Thorough and reliable, Norton CleanSweep removes a wide array of nonessential items on your hard drive. A graphical interface and intuitive wizards make Norton CleanSweep as easy to use as it is thorough. Don't take risks with your computer - trust Norton CleanSweep 2002.

**$69.00**
Websearch Code ..NOR409

XP Ready!

## UTILITIES

### Norton AntiVirus 7.0

Finds and repairs infected files, protecting against Macintosh viruses and macro viruses to keep your data safe and secure. Automatically scans email attachments for viruses. LiveUpdate™ technology provides easy updating of virus definitions over the Internet.

**$95.00**
Websearch Code ..NOR220

### Norton Personal Firewall 1.0

Internet security solution that protects connected consumers from hacking and privacy intrusions. It blocks connections thereby preventing hackers from gaining access to important data.

**$89.00**
Websearch Code ..NOR225

### Norton Utilities 6.0

Optimise performance and solve problems easily with Norton Utilities™. Disk Doctor™ finds and repairs disk problems. Speed Disk™ optimises your drive's performance, while UnErase™ and Volume Recover help restore lost files.

**$138.00**
Websearch Code ..NOR221

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EVERYTHING FOR YOUR PC - DELIVERED AUSTRALIA WIDE

## STORAGE & UTILITIES

### Lost & Found

Automatically recover and restore data after accidental (or even intentional) data loss, or from corrupted media. Recovers your files even after reformatting, as long as you have not written over them.

$119.00
Websearch Code ....129364

### DataKeeper

DataKeeper continuously monitors file activity in the background and makes compressed backups on the fly, keeping you protected. Featuring password protection and encryption, fault-tolerant backup sets, complete registry protection, continuous backup and monitoring.

$69.00
Websearch Code ..POW035

### DriveCopy 4.0

DriveCopy is the safest, easiest, and most affordable way to copy your old hard drive to your new hard drive without losing a single preference, setting, or byte of data. Connect both hard drives to your computer, and with a few simple steps, everything from your old hard drive is automatically copied to your new one.

$99.00
Websearch Code ..POW046

### PartitionMagic 7.0

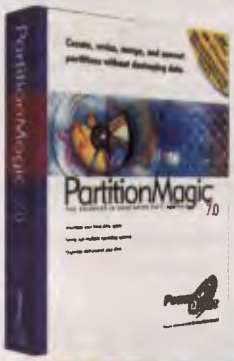
PartitionMagic allows you to create, resize, merge and convert partitions on your hard drive without destroying data. Award-winning PartitionMagic is the world's leading hard-drive partitioning software for PC enthusiasts.

**Features:**

- Merge NTFS partitions
- Undelete a deleted partition from rescue disks
- Support for Windows XP
- Partition hard drives as large as 80 GB
- Access and partition external USB drives

**Other Powerful Features:**

- Organize and protect the information on your hard drive
- Easy, step-by-step wizards help you perform partitioning tasks
- Preview the effects of partitioning before implementing anything
- Safely manage multiple operating systems
- Convert from one file system or partition type to another without losing data
- Supports FAT, FAT32, NTFS, and Linux ext2/Swap file systems



Upgrade
$99.00
Websearch Code ....POW071

Full Product
$139.00
Websearch Code ....POW070

### PartitionMagic 7.0 & Drive Image 5.0

BUNDLE PACK
$179.00
Websearch Code....189579

### Drive Image 5.0

PowerQuest's Drive Image 5.0 - the answer for protecting all the valuable data on your hard drive, including disaster recovery and backup for system upgrades.

- QuickImage Windows interface which lets you schedule regular, automatic backups of your entire hard drive or individual partitions.
- PowerQuest DataKeeper for constant monitoring and automatic file backup.
- SmartSector technology to reduce the time it takes to create and restore data.

Upgrade
$99.00
Websearch Code..POW055

Full Product
$139.00
Websearch Code..POW056

### DeployCenter 5.0

PowerQuest DeployCenter 5 (formerly Drive Image Pro) offers simplified system deployment and upgrades. Deploying or upgrading computer systems can be extremely time consuming and costly. DeployCenter lets you take care of these critical issues to help ensure your organisations success?

- Remotely manage multiple clients
- Deploy or upgrade Windows workstations
- Create a standard, customized work environment for faster deployment of new computers
- Easily introduce new systems to the network
- Automatically distribute and install new software or upgrades

Upgrade 10 User
$185.00
Websearch Code..POW073

10 User
$419.00
Websearch Code ....189569

## ZoneWerx

**IntraZone 3.0** - The world's most adaptable intranet.

"We invested $25,000 and over 6 months developing our Intranet - It doesn't come close to what IntraZone offers."

*B. Stevenson*
*Micro Blue*

IntraZone is an out-of-the-box Intranet solution for small and medium businesses or divisions and project groups in larger organizations.

The IntraZone solution streamlines your day to day business operations by providing staff with easily accessible communication tools, scheduling, discussion forums, project management, quotation pipelines, resource management, templates, company forms, policies, training, information, news and events.

Additionally, it provides the ability to share and distribute documents and data between staff, departments and offices - regardless of platform or geographic location. Access to IntraZone is through a standard Internet browser, minimising training requirements and increasing productivity.

IntraZone can be installed on your company's Microsoft Windows 98, Windows 2000 or Microsoft NT server within minutes and easily customise with your company details, logo and colors ensuring your Intranet is launched with your corporate identity.

$379.00
Websearch Code ....130527

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## SECURITY & ANTI-VIRUS

## VirusScan 6.0

**Keep Hackers Out**

McAfee VirusScan is the first anti-virus software that comes with an integrated personal firewall – an easy-to- use application that blocks hackers from gaining access to your system. McAfee VirusScan technology detects and removes all types of known viruses from any source including email attachments, Internet downloads, shared disks, CD Roms and even synchronization with your PDA.

## Internet Security 4.0

In today's highly wired environment, good anti-virus and firewall protection is essential for smart, safe computing. McAfee Internet Security is a comprehensive, easy-to-use, and automatic way to safeguard your PC, you, and your family from online threats. Install it for around-the-clock protection.

Standard
**$75.00**
Websearch Code MCA080

*$30 cashback offer for McAfee VirusScan 6 and McAfee Internet Security. Valid 1st January 2002 - 31st March 2002. Via redemption from McAfee. Refer sticker on box. Conditions apply.

**$106.00**
Websearch Code ..MCA079

## QuickClean 2.0

**Protect Your Privacy**

Even when you empty your recycle bin, information about where you've been online and files you've recently deleted can be retrieved from your hard drive. However, with McAfee Shredder technology included, you can shred this information from your computer and cover your online tracks.

MCAFEE

**$75.00**
Websearch Code ..MCA081

## Firewall 3.0

**Get The Defense That Hackers Hate**

Simply put, your PC is vulnerable without a firewall. A firewall prevents hackers from stealing your private information, blocks Trojan horses from taking control of your PC, and denies access to any number of dangerous intruders. McAfee Firewall makes it easy to put a protective barrier around your PC.

MCAFEE

**$52.00**
Websearch Code ....130879

## VirusScan Pro 6.0

Every day you get online, you are exposed to more viruses and smarter hackers. For reliable protection, choose McAfee VirusScan Professional, a superior anti-virus product with even more features for comprehensive PC protection. Now you have one solution to eliminate viruses, quickly clean up your PC, permanently erase private information and more.

MCAFEE

Professional
**$99.00**
Websearch Code MCA077

## Vet Anti-Virus Net Surfer

Vet is one of the leading anti-virus products in the worldwide market, consistently performing well in independent tests.

- Complete virus prevention
- Internet virus protection
- Unlimited Web upgrades/updates for 1 year
- Unlimited phone/email support for 1 year

**$85.00**
Websearch Code....VET006

## AlphaShield - Internet Privacy Protection

**Revolutionary Hardware - Triple Privacy Protection**

For Broadband Cable, DSL, ISDN & Wireless
•For Home/SOHO

**Stealth IP Technology**

Conceals your computer's identity from being visible on the internet, allowing you to surf securely.

**RPA™ Technology**

Real-time Packet Authorization Technology uses an Artificial Intelligent Infrastructure to monitor inbound and outbound data. Without any delay, each packet of information is inspected and allowed access only to authorized addresses

**AlphaGap™ Technology (2 levels of Gap)**

Seamless Intelligent Disconnection / Reconnection process. 1) Logical Gap – monitors and only allows user requested information to get through to your computer. 2) Physical Gap – completely disconnects computer from Internet while modem connection to ISP is still active.

World's first maintenance free Internet privacy protection device. Free Technical Support 5 year Limited Warranty (with registration)

The #1 threat today is identity theft Firewall and anti-virus software are not enough!

*BEST NEW TECHNOLOGY:*
*Gartner Award, 2001*

*BEST PRODUCT: ESOLUTIONS:*
*Gartner Award, 2001*

*BEST NEW INTERNET HARDWARE:*
*Latin Channel, 2001*

*BEST HARDWARE:*
*Latin Channel, 2001*

**$385.00**
Websearch Code ...ALS050

ALPHASHIELD

1. Open box.
2. Plug in your AlphaShield™
3. Surf the Internet securely.

**Additional Benefits**

- Platform Independent
- 24/7 Protection
- Not affected by virus
- No patches or upgrades required
- Stops DDoS attacks
- Does not affect system performance
- Plug and play
- No conflicts with Firewalls or Routers
- Supports Up to 10 PCs

## Vet Anti-Virus Premium

**Protection for your PC against an increasing rate of viruses.**

However you use your computer, you need to safeguard against viruses. Protect your PC with Vet Premium. This offers you all the advantages of Vet Net Surfer with the additional benefit of mailed quarterly upgrades - delivered to your home or office. It is then our responsibility to remember that it's time to upgrade your anti-virus protection.

**$99.00**
Websearch Code....VET007

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## BUSINESS

## MAUS Portfolio Management Pack

**Includes:** • MAUS Stockmarket Plus with FREE 28 DAY DOWNLOADS

**$169.00**
Websearch Code ....189328

## MAUS Business Planning Pack

**Includes:** • MAUS Masterplan & MAUS Project Planner + FREE Business Letters (RRP $59.95)

***The first 15 orders will receive a FREE Job Match Employee Assessment Report valued at $175***

**$335.00**
Websearch Code ....130123

## MAUS HR Toolkit

**Includes:** • MAUS Performance Review • MAUS Job Descriptions and • MAUS Employee Manual with FREE Copy of Business Letters (RRP $59.95) and FREE Online Assessment Report (Valued at $175.50)

***The first 20 orders will receive a FREE Business Letters & Job Match Employee Assessment Report valued at $230.95***

**$499.00**
Websearch Code ....129879

## MAUS Job Descriptions

Create clear, concise job descriptions in minutes with this simple to use program. Choose from over 3,500 customisable job descriptions selectable by job title or industry. Use the question and answer format to address physical and educational requirements, work environment, qualifications and supervisory duties.

**$189.00**
Websearch Code ..MAU005

## MAUS Employee Manual

Create a handbook encompassing all of your organisations policies and procedures. The application covers issues such as holiday entitlement, employee benefits, employment contracts, recruitment, termination and much more through a simple to use question and answer format.

**$189.00**
Websearch Code ..MAU011

## MAUS Health & Safety Planner

This application provides businesses with the necessary tools to develop an Occupational Health and Safety (OH & S) Management Plan. Avoid potentially costly employee litigation by improving safety standards and systems within your workplace.

**$189.00**
Websearch Code ....129968

## Project Planner

Forget complicated project management software that is as difficult to understand as it is to operate, complete important activities on time and under budget with this user-friendly application which tracks costs, labour required, available resources and deadlines. View instant reports and graphs, including easy to use Gantt charts and actual vs Budget comparisons.

**$189.00**
Websearch Code ..MAU018

## MasterPlan

**Award Finalist in the Telstra Small Business Show Software awards**

For people who need a winning, professional Business or Marketing Plan, MasterPlan's simple step-by-step question and answer format enables you to construct full financials, text and graphics in no time at all! Sample plans, real life examples and a unique financial wizard will ensure you prepare a perfect plan every time.

AWARD FINALIST

**$189.00**
Websearch Code ....129545

## Stockmarket Plus v4

MAUS Stockmarket Plus is an AWARD FINALIST in the Channel 9 SMALL BUSINESS SHOW SOFTWARE AWARDS and one of the biggest selling personal investment software tools in Australia. The application is a 4 in 1 Investment Software Tool. It handles shares, options, warrants, property, managed funds, fixed interest and a range of other investments with ease!

AWARD FINALIST

**$175.00**
Websearch Code ..MAU007

## Performance Review

At review time you can now create accurate and customized reviews in no time at all. This software package allows you to choose from dozens of performance criteria and then use the grading system to rank your employee in each area. The software will then support your ratings with clear text. Package also includes expert HR advice.

**$189.00**
Websearch Code ..MAU004

## Customer Relationship Manager

Capture the right information from your customer, combine that with your sales information and analyse your database and formulate new strategies to direct more accurate and profitable campaigns. Accesses all data from MYOB, QuickBooks and ALL other major accounting packages.

**$249.00**
Websearch Code ..MAU027

## Type Right

The fast new way to increase typing speed and accuracy. It takes you through the typing process step by step with fun tutorials and easy exercises. Best of all, this application is designed specifically for people who are using keyboards and computers, so its approach is practical and relevant to today's office environment. Basic keyboard skills can be attained in 4-6 hours.

**$89.00**
Websearch Code ..MAU029



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BUSINESS

## Qudos Business Planner

**A business plan is essential to raise finance & ensure business success**

Australia's brightest business planning software - **Qudos Business Planner** enables you to develop a first-class business plan quickly and easily - using your familiar desktop applications - **Microsoft Word** and **Microsoft Excel.**

**Qudos Business Planner** offers you an unbeatable combination - the knowledge of professional business consultants, ready-made template documents, the comfort of working with your familiar applications software - and all at a very competitive price.

Includes a wide range of sample plans with matching financials - you simply enter your figures where indicated to automatically generate impressive tables and colourful charts. A series of **Training presentations** illustrate relevant topics.

The **User's Guide** explains important issues in plain English, and guides you through the development of your business plan.

**$149.00**
Websearch Code ..TQA014

## Quality Manager - Toolkit

**The cost-effective way to develop your own ISO 9000 Quality System!**

Provides the tools you need to develop your own quality system. Includes sample **policy manuals, procedures, forms, job descriptions and letters** - ready for instant use or easy customising in MS Word 97 or above. A series of **Multimedia Training Presentations, Case Studies, Guide Book, handy ISO 9000 Quick Reference Guides and checklists** make developing and implementing your system even easier. Just add your unique knowledge of your own business!

**KEY BENEFITS**

- Low price - only a fraction of consultant's fees
- 3 times Finalist - Small Business Show Software of the Year
- For updating a system or creating a new one
- Work at your own pace - with your familiar word-processor
- Can be used by ANY size or type of business
- **NEW version for ISO 9001:2000**

**SAVE $70!**
Special Bundle - Quality Manager Toolkit + Database

**QM Bundle**
**$460.00**
Websearch Code .....130802

**QM Toolkit**
**$145.00**
Websearch Code.....TQA009

### Special Limited Offer

Buy Business Planner now & get a FREE copy of OfficePLUS worth $59!

**$149.00**
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## Quality Manager - Database

**If you want to...**

- Efficiently control a quality / business management system from your PC
- Reduce paperwork and administration time
- Integrate **quality, safety, environmental** and other systems

**DOCUMENT CONTROL:** Approval, issue and revision of documents. Launch files for display or editing in any Windows application.

**AUDITS:** Schedule, plan and record audits on any subject.

**IMPROVEMENTS:** Record suggestions / nonconformances / complaints. Plan Corrective and Preventive actions. Powerful data query facilities help you to identify trends and plan improvement.

**MEETINGS:** Schedule, plan and record minutes of meetings on any subject. Create agendas for any meeting type you choose.

**HUMAN RESOURCES:** Maintain personnel details and training history. Plan and record Employee Performance Reviews with user-definable objectives and rating system.

Network licences also available

**Standard Edition**
**$385.00**
Websearch Code.....TQA010

## Gold Edition

**For the dynamic organisation, this even more powerful option includes:**

**BONUS CANON SCANNER** valued at $120

**AUTO-EMAIL FACILITY:** to keep colleagues informed of issues raised, document changes, action required, audits and meetings.

**RISK ASSESSOR:** Extra to help you identify hazards, quantify them, plan and monitor control measures.

**BENCHMARK:** Extra module for performing benchmark exercises, vendor assessments, customer surveys, and much more.

**SET OF SAMPLE PROCEDURES:** provides most of those required by ISO 9001:2000, and can easily be customized using MS Word

**E-BOOK:** 'Guide to Quality Management' A full copy of the electronic book that provides a real insight.

**Gold Edition**
**$759.00**
Websearch Code .....189327

## Meeting Manager

**Plan, manage and record your meetings more effectively!**

Meetings play a vital part in running any modern organisation. Successful outcomes from meetings depend on them being well organised. **Qudos Meeting Manager** will help you to quickly and effectively plan, schedule and record any business meeting. Includes sample default agendas for various meeting types. For regular meetings, the 'Fill' tool lets you reuse previous minutes and simply enter any changes.

**$49.00**
Websearch Code ..TQA015

## OfficePLUS!

MS Office is the world's most popular office suite - yet few of us fully utilise it. **Qudos OfficePLUS!** will help any business to make more productive use of Microsoft Office 97 or above - with hundreds of ready-made solutions. Includes sample Word letters and forms, Excel workbooks, PowerPoint presentations, Access databases, voice, music and sound files. **Qudos OfficePLUS!** is a 'Must-have' product for any business user of MS Office.

NEW version with even more letters, forms and workbooks.

**$49.00**
Websearch Code ..TQA011

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# BUSINESS

## Business Letter Value Pack

Contains over 600 Marketing Letters, Employee letters and Agreements, Legal letters and Agreements Business 2 Business letters, Lead generation and relationship marketing letters.

Never be lost for words with these award winning software products.

**$125.00**
Websearch Code ....189306

## Business Writer Professional

The complete business writing and reference tool for home offices and small businesses. It contains over 600 proforma and sample customer and supplier business letters, marketing and sales letters, business documents and forms, staff performance matrices, business agreements, employee agreements,legal letters, sample contracts and many more valuable tools.

**$108.00**
Websearch Code ....189310

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8.30am until 5.30pm (EST)
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(except Wednesday 9.00am until 5.30pm)

### Pricing

All orders are invoiced inclusive of GST. Prices are subject to change & product availability.*

* See our Terms & Conditions on page 2.

## Business Planner Professional

For people who need to create winning and comprehensive business or marketing plans. The program steps you through the complete planning process section by section, it includes an on-line help system, proforma templates to build your plan quickly, in-built spreadsheet facilities and functions to allow "What if" scenarios. It also has an in-built, spellchecker, and comprehensive glossary of business and planning terms and financial ratios.

**$165.00**
Websearch Code ....189308

## Marketing & Sales Planner Professional

For people who need to create winning and comprehensive marketing and sales plans. The program steps you through the complete planning process. It includes an on-line help system, proforma templates to build your plan quickly, in-built spreadsheet functions and facilities to allow "What if" scenarios. It also has an in-built, spellchecker and comprehensive glossary of marketing and sales terms.

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Websearch Code ....189305

## Human Resource Value Pack

Has been developed with the small business operator in mind. It contains Human Resource Manager, a comprehensive HR planning and operations manager showing businesses how to recruit, train, develop and improve staff. It also contains hundreds of employee letters, employee agreements, employee forms, staff performance matrices, appraisal letters, hundreds of job descriptions and many more tools to meet the daily HR needs of the small businesses.

**$159.00**
Websearch Code ....189309

## Sales and Marketing Value Pack

Contains the award winning Marketing and Sales Planner and is complimented with over a hundred sample Marketing Letters and over a hundred Lead Generation and Relationship Letters. It will help drive you marketing strategy and sales campaigns, allow you to build winning customer relationships and loyalty programs and give you many sales and marketing techniques to build your business.

**$159.00**
Websearch Code ....189307

## Business Starter Value Pack

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Websearch Code ....189321

## SOHO Super Value Pack

• Marketing and Sales Planner • Marketing Letters • Lead Generation Letters • Human Resource Manager • Employee Letters and Agreements • Job Descriptions and Forms • Business Planner Professional • Business Writer Professional • Excellent value

**$399.00**
Websearch Code ....189322

## Borland C++Builder 6

C++Builder 6 Professional provides a highly productive visual development environment for building Web and database applications for the Windows platform. C++Builder enables developers to easily integrate Web Services from across the Internet into their applications using the power and flexibility of SOAP, XML, and WSDL. C++Builder also includes CLX, the Borland Component Library for Cross-platform development. CLX enables the creation of cross-platform-ready applications that can be re-compiled and run on the Linux platform with currently planned releases of Borland C++ products for Linux. Gain access to data with database drivers supporting Borland InterBase, Access, Paradox, dBase, and MySQL.

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- Diagnose your errors on the spot with CodeGuard

| Upgrade | Full |
|---|---|
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BES Web Edition is a complete, scalable, and robust deployment platform for Web applications. It includes Borland-enhanced versions of the Apache Web server and the Tomcat Web container, as well as JDataStore, a Java database, for caching, session management, and general database needs. The Borland Web Engine, which integrates the Borland Web Server and Borland Web Container, is built on Borland VisiBroker, the most widely deployed CORBA solution on the market. This VisiBroker infrastructure provides industry-proven load balancing and fault tolerance in a deployment environment for JSP/servlets, Web applications, and Web Services developed with the award-winning Borland Delphi. J2EE developers can now leverage industry-proven application server technology for JSP/servlets deployment.

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Paul Gross, Vice President of Developer Tools – Microsoft Corporation

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Websearch Code ....129604

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## DATABASE

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Websearch Code ....131025

### Microsoft Plus! for Windows XP

Delivers exciting new features for digital music, gaming, photos, and more. Tailor your digital audio and video to your own tastes, challenge yourself with a variety of fun and exciting games, and customize the look and feel of your desktop.

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Websearch Code ....130919

### MS Office Personal Portfolio

Extends Office 97, Office 2000 and Office XP for personal and home use. Choose from 600 high-quality, fully customisable templates centered on your family, your career, your school and your community. Hundreds of templates help you create great-looking documents in Microsoft Word, Excel, PowerPoint, and Outlook.

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FileMaker:

# Tell a Friend & WIN PROMOTION

SEE DETAILS BELOW

## FileMaker Pro 5.5

### Manage Your Data from Desktop to Web

FileMaker Pro 5.5 is the world's first software native for Mac OS X and logo-certified for Windows 2000. FileMaker Pro 5.5 helps Business Workgroups manage and share vital information with colleagues across the office or around the world. Whether you interface with Microsoft Office, develop your own databases, or exchange information with any kind of application, the new design tools in FileMaker Pro 5.5 will let you create powerful, customised business solutions. The new and faster FileMaker Pro 5.5 Web Companion provides a richer FileMaker experience over the Web.

| Full Product | Upgrade |
|---|---|
| **$535.00** | **$325.00** |
| Websearch Code .....FIL022 | Websearch Code .....FIL023 |

## FileMaker Developer 5.5

FileMaker Developer 5.5 is the essential development environment for creating professional custom FileMaker solutions to be used for the Web, across workgroups or as royalty-free runtime applications. Powerful tools have been added to save you valuable development time. Test and verify your scripts with the new Script Debugger. Document the structure of any FileMaker solution with the push of a button and view detailed information on fields, layouts, value lists, scripts, relationships and passwords. Connect to external data sources with our JDBC, or ODBC drivers. Whether you are developing commercial or in-house solutions, FileMaker Developer 5.5 is the tool of choice.

**$1079.00**
Websearch Code .....FIL031

## FileMaker Mobile

### Companion for Palm OS

Be productive in just minutes with this easy-to-use FileMaker Pro 5 companion-just load and go. Take along just the data you need; load the field names and data you select from your single-user FileMaker Pro 5 databases onto the Palm OS handheld with just a few clicks. No need to invest time or effort to re-build your databases on the handheld; FileMaker Mobile does it for you.

*Palm for illustration purposes only.*

**$109.00**
Websearch Code .....FIL020

## FileMaker Server 5.5

### The Database Server for Growing Workgroups

An easy-to-use relational database server - is the best way to host your FileMaker Pro 5.5 solutions on Windows 2000, Mac OS X, Mac OS and Red Hat® Linux. This high-performance server engine supports up to 250 FileMaker Pro 5.5 guests simultaneously on multiple platforms with several protocol options and up to 125-hosted files. It includes automatic plug-in updating, scheduled backups and remote administration tools to monitor server activity and to control guest and file connections.

| Upgrade | Full Product |
|---|---|
| **$1115.00** | **$2225.00** |
| Websearch Code .....FIL030 | Websearch Code ....130775 |

## FileMaker Pro 5.5 Unlimited

Powerful Web database publishing which brings expanded productivity to the business workgroup. Utilise the FileMaker Web Server Connector to increase the performance, reliability and scalability of your FileMaker Web databases. Use multiple copies of FileMaker Pro 5.5 Unlimited to set up a redundant array of inexpensive computers structure to provide scalable load balancing and ensure operation through fail over situations. It may also be used with a wide variety of middleware applications, CGIs, and application servers for large-scale customised web solutions.

**Unlimited Web deployment**

| Upgrade | Full Product |
|---|---|
| **$1149.00** | **$2285.00** |
| Websearch Code ....131020 | Websearch Code ....131019 |

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**Tell a friend or colleague about FileMaker Pro and you could win a Business Productivity Booster Pack valued at approximately $990.00. By providing their contact details – with their permission – you will be entered into a draw to win:**
**• FileMaker Pro 5.5 • FileMaker Mobile 1.0 • Palm M105**

To enter, complete you and your friend's contact details as outlined on the FileMaker web site at http://www.filemaker.com.au/promos/tellafriendpromo.html or by faxing (02) 9438 5947. The promotion can be entered more than once. Offer begins at 9am on 11 February 2002 and concludes at 5pm on 30 June 2002. Entries received after the deadline will not be accepted. Entries will be accepted via the Web at http://www.filemaker.com.au/promos/tellafriendpromo.html or by fax to (02) 9438 5947 only. Entries received by other means will not be accepted. Entry is open to all residents of Australia other than employees of FileMaker, Inc. their immediate families and agencies. By providing FileMaker with your friend's details, we assume that you have received the permission of the third party and it is essential that their permission is gained prior to entering the promotion. FileMaker Inc's privacy policy is available at http://www.filemaker.com.au/legal/notice_privacy.shtml.

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# Crystal Reports 8.5

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### Powerful Content Creation

Crystal Reports allows you to create rich content from virtually any data source including XML, OLAP or relational. Add charts, drill-down, alerting, parameter prompts, and hyperlinks and turn reports into compelling, interactive documents or web content. And it's simple to deliver information the way you want in a variety of formats, including XML, DHTML, PDF, RTF and Microsoft Excel.

### Flexible

Developer tools for Web and Windows developers with comprehensive support for development languages makes Crystal Reports the essential reporting tool for database applications. Build and freely distribute client-side applications that incorporate rich interactive reports, or create scalable client/server applications starting with the included 5 concurrent user license.

### Web Publishing System

Rapidly deploy your reporting solution to the web with our powerful new web publishing system for easy information sharing. As a special offer to retail customers, Crystal Reports Developer and Professional editions include 5 concurrent users of Crystal Enterprise Standard free. It is the fastest way to get your high-quality interactive Crystal Reports out to users across the enterprise.
The 5 concurrent users of Crystal Enterprise Standard received free is not accumulative. You may not increase the number of promotional CALs by purchasing further copies of Crystal Reports 8.5.

### Available in three editions

- **Developer** - Integrate flexible, high performance reporting into web and Windows applications.
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*All customers who purchase Crystal Reports 8.5 Professional or Developer editions with upgrade advantage maintenance will receive this FREE PICNIC BACKPACK.

### Developer promotion

Purchase Crystal Reports 8.5 Developer edition full product or upgrade with upgrade advantage maintenance to receive four new add-ons.

**New COM driver** - This add-on allows you to write custom data access drivers using any development language that can create standard DLLs. Encapsulate business logic, perform complex calculations or simply abstract your data, then use the power of Crystal Reports for formatting, presentation and delivery.

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**New VCL** - supports Delphi 6.

**New Excel export** - now what you see in Crystal Reports is what you will see when exporting to excel with its improved images and colouring. It also supports data-only export.

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**Developer**
**$925.00**
Websearch Code .....111168

# Crystal Analysis Professional

### Powerful analysis for the Web

Crystal Analysis Professional provides easy-to-use interactive high-speed analysis for Microsoft SQL Server (OLAP) Services. It makes multi-dimensional data easy to understand, use and deploy - opening the power of interactive analysis to all.

Crystal Analysis Professional allows end users to easily create snapshots of multi-dimensional OLAP data, stored in MS SQL Server Analysis (OLAP) Services, including rich visualization techniques such as charting, which are then compiled into Excel-style Briefing Books for guided navigation and can be deployed to the Web. It is designed for ease-of-use, with a point-and-click design environment, requiring that interactive report designers have some knowledge of the data but little else.

The result delivers better value to organisations, as more people will now be able to access information from multi-dimensional OLAP data, and gain better insights to help decision-makers impact business performance.

**$729.00**
Websearch Code .....111204

## DATABASE

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**$169.00**
DVD .....MSS696
CD .....MSS695

### Microsoft Encarta Encyclopedia Deluxe 2002

**$145.00**
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### Microsoft Word 2002

The application of choice for creating and sharing documents in print, through e-mail, and on the Web. Incorporates the productivity and collaboration innovations of Office XP, such as Smart Tags and Send for Review, making it easier to create, share, review, and publish your important documents.

### Microsoft Excel 2002

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### Microsoft Publisher 2002

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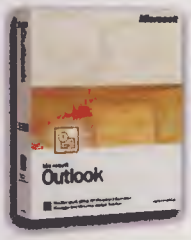
### Microsoft Access 2002

Offers a set of tools rich enough for the most experienced database developer, yet accessible enough for first-time users. Introduces productivity and collaboration features such as the Data Access Page Designer and XML support.




### Microsoft Outlook 2002

Provides a single, integrated solution for organising and managing your digital communication tools such as e-mail and instant messaging, along with all your day-to-day information - from calendars and contacts to tasks, lists and notes.

### Microsoft FrontPage 2002

Now it's easy to add sophisticated technology to your Web site without having to program. Get the lowdown on your site's performance with enhanced reports, Microsoft FrontPage 2002 has the tools to help your business.

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A new design featuring unique comfort enhancements and is supercharged with Microsoft's new proprietary IntelliEye optical technology. Lead in comfort and style, adding enhanced grip support, finger grooves and a new curvy shape to its signature titanium silver shell and glowing red underside.

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| • 1 yr On-Site Warranty* | $ 85 extra |
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- **Sony 16x DVD ROM**
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- Auriga 17" Digital Monitor
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- **Cambridge 3-piece Speakers**
- Internet K/B & Wheel Mouse
- 300 W Power Supply Case
- 2 yrs Parts & 5 yrs Labour Warranty*

**AMD Athlon XP 1700+ $1995**
**AMD Athlon XP 1800+ $2095**

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| • Creative 5.1 DE S/Card | $ 95 extra |
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### USCT Proposal

- **AMD Athlon XP 1900+**
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**$2795**

Options:

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| • 1 yr On-Site Warranty* | $ 85 extra |
| • Creative Audigy DE | $ 95 extra |
| • 19" Digital Monitor | $ 0.00 |
| • Cambridge DTT 2200 Spkr | $195 extra |

### Dream Machine

- **Asus A7V/266-E DDR**
- Samsung **512** DDR RAM
- **64 MB Geforce3 Titanium TI 200** *(Hercules/Winfast)*
- 19" Diamondtron Flat Tube Monitor
- Sony CD RW (40x24x10)
- Sony 16x DVD-ROM
- Sony 1.44 MB Floppy
- **Seagate 60.1 GB 7200 rpm HDD**
- **Creative Audigy Digital Entertainment**
- **Cambridge DTT 2200 6-piece Spkrs**
- Motorola 56K Fax/Voice
- 300 Watt Power Supply Case
- 2 yrs Parts & 5 yrs Labour Warranty*

**AMD Athlon XP 1900+ $3695**
**AMD Athlon XP 2000+ $3795**

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| | |
|---|---|
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| • 1 yr On-Site Warranty* | $ 85 extra |
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| CANON BJC S400 | $210 |
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| CANON BJC S600 | $495 |
| EPSON STYLUS C60 | $250 |
| EPSON STYLUS C70 | $390 |
| EPSON STYLUS 980 | $650 |
| HP DESKJET 930C | $250 |
| HP DESKJET 990C | $690 |
| XEROX Laser Pinter P8EX | $445 |
| XEROX Laser Pinter P1210 | $745 |

**Scanners**

| | |
|---|---|
| HP Scan Jet 2200 | $170 |
| CANON 670U | $170 |
| CANON 660U | $260 |
| CANON 1240U | $285 |
| CANON 1230U | $385 |
| EPSON 1250 USB | $230 |

**Software**

| | |
|---|---|
| WINDOWS XP Pro (OEM) | $315 |
| BRITANNICA STANDARD(OEM) | $ 35 |
| MS WORKSUITE 2001 | $135 |
| M/S SBE XP (Word, Excel, Publisher) | $395 |
| M/S OFFICE Pro (OEM) | $520 |
| NORTON Anti-Virus 2002 | $ 85 |
| NORTON Personal Firewall 2002 | $ 75 |
| NORTON System Works 2002 | $125 |
| Norton PC Anywhere | $225 |

**Accessories**

| | |
|---|---|
| Logitech Cordless Freedom Optical | $195 |
| Logitech Quick Cam Pro 3000 | $195 |
| PINNACLE Studio PC TV | $225 |
| PINNACLE Studio On-Line | $185 |
| PINNACLE Studio Action | $190 |
| PINNACLE Studio DV Plus | $480 |

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- 32MB S.M.A GRAPHIC CARD
- MICROSOFT® WINDOWS XP HOME
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- 3D STEREO SOUND & SPEAKERS
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- 40R X 16W X 10RW CD-RW
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- 3D STEREO SOUND
- PRECISION SPEAKERS
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- SCROLL MOUSE
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- 32MB RIVA TNT2 M64 GRAPHIC CARD
- MICROSOFT® WINDOWS XP HOME
- 16X DVD ROM
- 40R X 16W X 10RW CD-RW
- 3D STEREO SOUND & SPEAKERS
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- 16X DVD ROM
- 40R X 16W X 10RW CD-RW
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8X SPEED INTERNAL DVD ROM
MICROSOFT® WINDOWS XP HOME
1.44 MB FLOPPY DISK DRIVE
56K V90 FAX/DATA MODEM
10/100 NETWORK INTERFACE CARD
2X USB , 1X TV-OUT, 1X FIRE-WIRE PORTS
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LI-ION BATTERY, SMART EXECUTIVE CARRY CASE
1 YEAR WARRANTY

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MICROSOFT® WINDOWS XP HOME
1.44 MB FLOPPY DISK DRIVE
56K V90 FAX/DATA MODEM
10/100 NETWORK INTERFACE CARD
2X USB , 1X TV-OUT, 1X FIRE-WIRE PORTS
15" SXGA (1440 X 1050) TFT SCREEN
LI-ION BATTERY
SMART EXECUTIVE CARRY CASE
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256 MB SDRAM
8X SPEED INTERNAL DVD ROM
MICROSOFT® WINDOWS XP HOME
56K V90 FAX/DATA MODEM, 1.44MB FDD
10/100 NETWORK INTERFACE CARD
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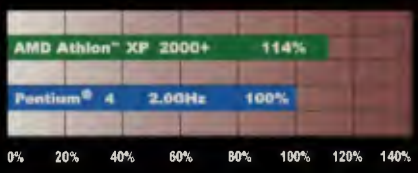


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| Pentium4 1.7 GHz (Skt 423/478) | $455 / $475 |
| AMD Duron 850 MHz | $105 |
| AMD Duron 1 GHz | $157 |
| AMD K7 Athlon 1.2 Ghz | $237 |
| AMD K7 Athlon 1.3 Ghz | $259 |
| AMD Athlon XP1600+ | $295 |
| AMD Athlon XP2000+ | $715 |
| **Hard Disk Drive** | |
| 20 GB Hard Disk Drive | $168 |
| 20 GB 7200 rpm Hard Drive | $175 |
| 40 GB Hard Disk Drive | $185 |
| 40 GB 7200 rpm Hard Drive | $220 |
| 60 GB 7200 rpm | $259 |
| **Motherboard** | |
| MSI 6330 Lite Ver3 K7T M/B 200/266 | $199 |
| ECS SIS 735 DDR/SDR K7S5A | $149 |
| Asus A7A266-E DDR & SDR M/B | $276 |
| Asus A7V266-E DDR & SDR M/B | $345 |
| Asus P4B266 i845 DDR Skt 478 | $420 |
| Asus P4S333 FX SiS 645 DDR | $250 |
| Gigabyte GA-7ZXE SDR KT133A | $180 |
| Gigabyte GA-7VTXE DDR / XP | $209 |
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| LG 16x10x40 CDR/RW with Software | $175 |
| IOMEGA 24x10x40 w/Burn Proof | $235 |
| RICOH 24x10x40 | $223 |
| TDK 50 Pack 74 Min Spindle | $ 45 |
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| 32 MB TNT2 M64 AGP | $ 68 |
| 32 MB Geforce 2 MX 200 | $ 98 |
| 64 MB Geforce 2 MX 200 +TV OUT | $129 |
| 64 MB Geforce 2 MX 400 +TV OUT | $145 |
| 32 MB Geforce 2 Titanium AGP | $175 |
| 64 MB Geforce 2 Titanium AGP | $225 |
| 64 MB Geforce 3 | $595 |
| 64 MB Geforce 3 Titanium 200 | $435 |
| 64 MB Leadtek Geforce 3 TD | $735 |
| 64 MB Leadtek Geforce 3 Titanium 200 | $470 |
| 64 MB Leadtek Geforce 3 Titanium 500 | $799 |
| **Monitors** | |
| 15"inch Digital Monitor | $198 |
| 17"inch Digital Monitor | $265 |
| 17"Proview with Speakers | $300 |
| 17" LG 700S | $317 |
| 17" Acer 77c | $319 |
| 17" Viewsonic Flat .21 E70f | $465 |
| 17"LG Flatron 775FT | $435 |
| 19"M AG Digital Monitor | $455 |

| Case & Power Supplies | |
|---|---|
| ATX MIDI (Small) 250 Watt | $ 42 |
| ATX MIDI (BIG) 300 Watt | $ 46 |
| Full Aluminum ATX Case (No PSU) | $168 |
| Aopen 250 Watt Case | $ 75 |
| 300 Watt Power Supply ATX | $ 35 |
| 350 Watt Power Supply ATX12V P4 | $ 45 |
| 400 Watt Power Supply ATX12V P4 | $ 55 |
| **Sound Card** | |
| Creative SB PCI Live Value OEM | $ 79 |
| Creative SB Live Platinum | $285 |
| Creative SB Audigy PCI | $209 |
| Creative SB Audigy Platinum | $465 |
| Creative SB PCI Live 5.1 | $ 99 |
| **Speakers** | |
| Altec Lanseng AVS300 | $ 83 |
| Altec Lanseng AVS500 | $130 |
| Altec Lanseng AC56 | $260 |
| Creative Inspire 5300 5.1 | $295 |
| Creative PC Works 2.1 | $ 79 |
| Creative PC Works 4.1 | $125 |
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| OEM Software is with a New PC Only | |
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| EPSON C40UX/SX | $155 |
| CANON BJC2100 | $119 |

## P4 DDR System

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**64M GF2 MX400 w/ TV out**
**20 GB HDD 5400rpm**
**17" Proview Monitor**
**ARC ATX Midi Case**
**1.44MB FDD**
**CD ROM 52X**
**Sound Blaster Live Value**
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|---|---|
| intel Pentium 4 1.6 GHz | $1,955 |
| intel Pentium 4 1.7 GHz | $1,995 |
| intel Pentium 4 1.8 GHz | $2,129 |
| intel Pentium 4 1.9 GHz | $2,215 |
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## AMD DDR System

### AMD Athlon CPU

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**32 MB GF2 Titanium AGP**
**40 GB HDD**
**17" LG / Acer**
**ARC ATX Midi Case**
**1.44 MB FDD**
**16x DVD Drive**
**Sound Blaster Live Value**
**580 Watt Sub & Spkrs**
**PS2 Internet Keyboard**
**PS2 Web Wheel Mouse**
**Int 56k V.90 Modem PCI**
**Win XP Home / ME / 98**

| | |
|---|---|
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| AMD Athlon 1.33 GHz | $1,975 |
| AMD Athlon XP 1600+ | $2,010 |
| AMD Athlon XP 1700+ | $2,095 |
| AMD Athlon XP 2000+ | $2,475 |

## NOTEBOOKS

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| | |
|---|---|
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| Celeron 1 GHz | $2,153 |
| Pentium 3 933 MHz | $2,330 |
| Pentium 3 1 GHz | $2,345 |
| Pentium 3 1.1 GHz | $2,455 |
| Pentium 3 1.2 GHz | $2,593 |

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| CC-3BK | BJI-643BK | BJC-800/820 Black | $12.00 |
| CC-4BK | BCI-21 | BJC-2000/4000/5000 Series Black | $7.00 |
| CC-5CL | BCI-21C | BJC-2000/4000/5000 Series 3-Colour | $12.00 |
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| CC-7BK | BCI-10 | BJ-30 Black | $9.00 |
| CC-8BK | BCI-11 | BJC-70 Black | $9.00 |
| CC-9CL | BCI-11C | BJC-70 3-Colour | $17.00 |
| CC-11CL | BCI-61 | BJC-7000 Series 3-Colour | $32.00 |
| CC-12PCL | BCI-62 PHOTO | BJC-7000 Series Photo 6-Colour | $38.00 |
| CC-13B | BCI-3 | BJC-6000 Black | $25.00 |
| CC-14C | BCI-3C | BJC-6000 Cyan | $16.00 |
| CC-15M | BCI-3M | BJC-6000 Magenta | $16.00 |
| CC-16Y | BCI-3Y | BJC-6000 Yellow | $16.00 |
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| CE-52BK | SO20034 | STYLUS Colour/Colour Pro Black | $20.00 |
| CE-53CL | SO20028 | STYLUS Colour/Colour Pro 3-Colour | $30.00 |
| CE-54BK | SO20047 | STYLUS 200/820/Colour II /IIs Black | $13.00 |
| CE-55CL | SO20049 | STYLUS 200/820/Colour II /IIs 3-Colour | $21.00 |
| CE-56PBK | SO20093 | STYLUS Colour 400/500/600/Photo Black | $17.00 |
| CE-57CL | SO20097 | STYLUS Colour 200/500 3-Colour | $23.00 |
| CE-58BK | SO20108 | STYLUS Colour 800/850/1520 Black | $17.00 |
| CE-59CL | SO20089 | STYLUS Colour 400/600/800/1520 3-Colour | $23.00 |
| CE-60PCL | SO20110 | STYLUS Colour 700/Photo/Photo 700 5-Colour | $26.00 |
| CE-61BKCL | SO20138 | STYLUS Colour 300 4-Colour | $31.00 |
| CE-65BK | SO20187 | STYLUS Colour 440/640/660 Black | $16.00 |
| CE-66BK | SO20189 | STYLUS Colour 740/760 Black | $16.00 |
| CE-67CL | SO20191 | STYLUS Colour 440/640/660/740/760 3-Colour | $26.00 |
| CE-68PCL | SO20193 | STYLUS Photo 750 5-Colour | $33.00 |
| CE-69CL | T003011 | STYLUS Colour 900 Black | $19.00 |
| CE-70CL | T005011 | STYLUS Colour 900 Colour | $24.00 |
| CE-71PCL | T001011 | STYLUS Photo 1200 5-Colour | $29.00 |
| CE-27BK | T007 | STYLUS Colour 870/1270 Black | $24.00 |
| CE-73CL | T008 | STYLUS Colour 870 Colour | $29.00 |
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| A4WF | A4 White Film 100mu | 50 | $ 47.00 | 0.94 |
| A3WF | A3 White Film 100mu | 50 | $ 90.00 | 1.80 |
| A4CF | A4 Clear Film 100mu | 50 | $ 39.00 | 0.78 |
| A3CF | A3 Clear Film 100mu | 50 | $ 71.00 | 1.42 |
| A4FGP | A4 Full Gloss Photo Paper | 50 | $ 44.00 | 0.88 |
| A3FGP | A3 Full Gloss Photo Paper | 50 | $ 79.00 | 1.58 |
| A4PH | A4 Economy Photo Paper | 50 | $ 23.00 | 0.46 |
| AC2 | Artists Canvas | 25 | $ 60.00 | 2.40 |
| GC4F | Greeting Card (4 Fold) | 100 | $ 28.00 | 0.28 |
| GCBF | Greeting Card (Bi-Fold) | 100 | $ 48.00 | 0.48 |
| DCCS | Double Coated Card Stock | 50 | $ 24.00 | 0.48 |
| GCS | Glossy Card Stock | 50 | $ 24.00 | 0.48 |
| TTP | T-Shirt Transfer Paper | 15 | $ 15.00 | 1.00 |
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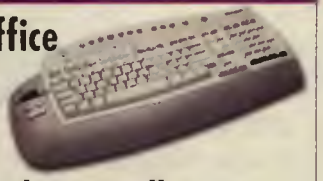

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| Presario1700 | P3 650, 192M RAM, 10G, 24 CD, 13.3" TFT, 56K, LAN, TV OUT, WIN 98 | $2358 |
| Presario1700 | P3 800, 256M RAM, 15G, 6X DVD, 13.3" TFT, 56K, LAN, TV OUT, WIN ME | $3,694 |
| Presario1700 | P3 850, 256M RAM, 20G, 6X DVD, 14.1" TFT, 56K, LAN, WIN ME | $4,041 |

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### HARD DISK IDE

| | |
|---|---|
| Aopen 250W ATX KF-45 Midi case | $85 |
| AAA 300WATX Medium tower case | $43 |
| AAA 300W ATX Delux tower case | $75 |
| AAA 300W ATX Desktop case | $47 |
| ATX Fulltower case(6x5.25"&2x3.5") | $100 |
| ATX P4 CASE 300W, | $60 |
| ATX P4 CASE 300W,Luxury | $100 |
| P4 Server CASE 400W(6x5.25" &1x3.5") | $125 |

### CD Blank

| | |
|---|---|
| Blank CD-RW | $2 |
| Sony Blank CD-R 80 Min (10 in a box) | $12 |
| Kodak Blank CD-RW (10 in a box) | $32 |

### CD REWRITER

| | |
|---|---|
| Ricoh 40x20x10 CD-RW, w/software | $221 |
| Sony 40x24x10 CD-RW, w/ software | $227 |
| Kodak 8x4x4 External USB Retail | $234 |
| Acer 40x24x10 CDRW | $200 |
| LG 40x24x10 CD-RW, W/ software | $200 |

### CD-ROM

| | |
|---|---|
| Sony 52x speed CD-ROM drive, | $70 |
| ASUS 50x speed CD-ROM drive, | $55 |
| ASUS 52x speed CD-ROM drive, | $65 |

### DVD

| | |
|---|---|
| Sony 16x DVD ROM | $128 |
| LG 16x DVD ROM | $125 |
| PIONEER 16x DVD ROM TRAY | $150 |
| PIONEER 16x DVD ROM SLOT | $135 |

### FLOPPY DRIVE

| | |
|---|---|
| SONY 1.44Mb 3.5" Floppy drive | $22 |
| MITSUMI 1.44Mb 3.5" Floppy drive | $20 |
| PANASONIC 1.44Mb 3.5" Floppy drive | $21 |

### HARD DISK IDE

| | |
|---|---|
| Seagate 20 Gb IDE Hard disk | $169 |
| Seagate 40Gb/5400 | $187 |
| Seagate 60Gb/5400 | $239 |
| Seagate 80Gb/5400 | $352 |
| Seagate 20Gb Barracuda ATA III | $185 |
| Seagate 30Gb Barracuda ATA IV | $221 |
| Seagate 60Gb Barracuda ATA IV | $296 |
| Seagate 80Gb Barracuda ATA IV | $415 |
| IBM 40GB/7202 | $261 |
| IBM 60GB/7203 | $345 |
| IBM 75GB/7201 | $590 |
| WESTERN DIGITAL 20GB/5400 | $177 |
| WESTERN DIGITAL 20GB/7200. | $186 |
| WESTERN DIGITAL 30GB/5400 | $207 |
| WESTERN DIGITAL 30GB/7200 | $246 |
| WESTERN DIGITAL 40GB/5400 | $201 |
| WESTERN DIGITAL 40GB/7200 | $235 |
| WESTERN DIGITAL 60GB/5400 | $315 |
| WESTERN DIGITAL 60GB/7200 | $325 |
| WESTERN DIGITAL 80GB/5400 | $355 |
| WESTERN DIGITAL 80GB/7200 | $418 |
| WESTERN DIGITAL 100GB/7200 | $550 |
| WESTERN DIGITAL 1200GB/7200 | $750 |

### Hard disk Seagate SCSI

| | |
|---|---|
| 4.5Gb Barracuda 80PIN | $214 |
| 18.4Gb Barracuda 18XL 50PIN | $335 |
| 18.4Gb Barracuda 18XL 80PIN | $310 |
| 18.4Gb Barracuda 18XL 68PIN | $310 |
| 18.4 Gb Barracuda 50PIN | $332 |
| 36Gb Barracuda Ultra160 68PIN | $515 |
| 36Gb Barracuda Ultra 160 80PIN | $515 |
| 36Gb Barracuda 80PIN | $530 |
| 181Gb Barracuda 68PIN | $2,725 |
| 181Gb Barracuda 80PIN | $2,725 |
| 9.2Gb Cheetah 80PIN | $326 |
| 9.2Gb Cheetah 18XL 80PIN | $324 |
| 18Gb Cheetah 80PIN | $465 |
| 18Gb Cheetah 68PIN | $375 |
| 18Gb Cheetah 80PIN | $375 |
| 18Gb Cheetah X15 68PIN 15KRPM | $600 |
| 18Gb Cheetah X15 68PIN 15KRPM | $600 |
| 18Gb Cheetah X15 80PIN 15KRPM | $600 |
| 36Gb Cheetah X15 80PIN | $1,030 |
| 36Gb Cheetah X15 68PIN | $1,030 |
| 36Gb Cheetah 80PIN | $905 |
| 36.7Gb Cheetah 80PIN | $697 |
| 36.7Gb Cheetah 80PIN | $697 |
| 36.7Gb Cheetah 68PIN | $697 |
| 73GB Cheetah 68PIN | $1,384 |
| 73GB Cheetah 80PIN | $1,384 |
| 73GB Cheetah 80PIN | $1,394 |
| ST318203LC 18.2Gb Cheetah 80PIN | $564 |
| ST318451LW 18.35Gb Cheetah X15 [illegible] | $759 |
| ST318405LW 18.4Gb Cheetah 18XL [illegible] | $423 |
| ST136475LC 36Gb Barracuda 80PIN | $643 |
| ST336737LC 36Gb Barracuda Ultra | $709 |
| ST336737LW 36Gb Barracuda Ultra | $709 |
| ST136403LC 36Gb Cheetah 68PIN | $1,098 |
| ST336705LC 36 7Gb Cheetah 68PIN | $923 |
| ST173404LW 73GB Cheetah 68PIN | $1,743 |
| ST373405LW 73GB Cheetah 68PIN | $1,743 |

### Ink Cartridge

| | |
|---|---|
| CanonBJC-21(B) 4000&2100sp Series | $8 |
| CanonBJC-21(C ) 4000&2100sp Series | $14 |
| S2047(B) Epson Stylus Color 200/II/IIs/820 | $5 |
| S2049(C ) Epson Stylus Color II/II/IIs/820 | $5 |
| S2093(B) Epson Stylus 400/500/600/700/Photo | $13 |
| S2097(C )Epson Stylus /Tm/ Color 200/500 | $5 |
| S20108(B)Epson Stylus Color800/1520 | $5 |
| S2089(C )Epson Stylus 400/600/800/1520 | $18 |
| S20110(C )Epson Stylus Photo700/PhotoEX | $18 |
| S20187(B)Epson Stylus Color 440/640/660 | $14 |
| S20189(B)Epson Stylus Color 740 | $5 |
| S20191(C )Epson Stylus Color 440/640/660/740 | $18 |
| T003(B)Epson Stylus Color 480/900/900N | $15 |
| T0014(C)Epson Stylus Color 480/900/900N | $22 |

### KEYBOARD

| | |
|---|---|
| Microsoft Internet K/B PS/2 | $50 |
| Microsoft Internet K/B PS/2 | $40 |
| Microsoft Internet K/B & INTELLIMOUSE | $52 |
| AAA Windows 98 K/B, PS/2 | $14 |
| AAA Windows 98 K/B, AT | $14 |
| Logitech cordless K/B&Mouse | $118 |
| Logitech Internet K/B | $40 |
| Logitech Optical cordless K/B&Mouse | $200 |

### MICE

| | |
|---|---|
| Microsoft Intellimouse Optical oem | $55 |
| Microsoft Intellimouse Optical | $75 |
| Microsoft Intellimouse Explorer | $90 |
| Logitech Mouse Optical PS/2 | $35 |
| Logitech Mouse Optical PS/2 CORELESS | $129 |
| Logitech cordless mouse | $50 |
| AAA Mouse PS/2 | $6 |
| AAA Mouse Serial | $6 |

### MEMORIE

| | |
|---|---|
| 128MB PC133 SDRAM 168pin | $70 |
| 256MB PC133 SDRAM 168pin | $122 |
| 512MB PC133 SDRAM 168pin | $240 |
| 128MB PC133 SDRAM, Kingmax | $75 |
| 256MB PC133 SDRAM, Kingmax | $130 |
| 128MB DDR DIMM 2100 | $85 |
| 256MB DDR DIMM 2100 | $178 |
| 512MB DDR DIMM 2100 | $450 |
| 64MB Rambus RDRAM 800Mhz | $55 |
| 128MB Rambus RDRAM 800Mhz | $109 |
| 256MB Rambus RDRAM 800Mhz | $215 |
| 256MB FOR NOTEBOOK | $137 |

### MODEM

| | |
|---|---|
| 56k V 90 Ultra Internal | $31 |
| 56k V 90 Ultra External | $85 |
| SWANN 56K USB | $83 |
| SWANN 56K TURBO EXTERNA | $106 |
| SWANN 56K Smart II EXTERNA | $137 |
| NETCOMM 56k Internal | $41 |
| NETCOMM 56k External | $92 |
| 56K PCMCIA FAX/MODEM | $94 |

### MOTHERBOARD

| | |
|---|---|
| P4, MSI Intel D850 Pro (423), RD RAM | $295 |
| P4, MSI Intel D845 Pro (478), SD RAM | $239 |
| P4, Genuine Intel D850MD (478), RD RAM | $312 |
| P4, Gigabyte 8IDML-C, (478), SD RAM | $237 |
| P4, ASUS P4B, (478), SD RAM | $353 |
| P4, ASUS P4T-E, (478), RD RAM | $420 |
| P4, ASUS P4B-M, (478), SD RAM | $287 |
| P3, Gigabyte 6VTXE | $139 |
| P3, ASUS TUSI-M | $147 |
| AMD, Gigabyte 7VTXE, W/Sound | $219 |
| AMD, Gigabyte 7ZXE, W/Sound | $158 |
| AMD, MSI K7T 266 Pro2 | $250 |
| AMD, ASUS A7V266, U100 | $326 |
| AMD, ASUS A7V266-E, U101 | $298 |
| AMD, ASUS A7A266-E, U100 | $231 |
| AMD, ASUS A7M266, U100 | $339 |
| AMD, ASUS A7VL133-VM w/Vedio, sound | $148 |
| MSI MS 6362-SCSI | $597 |
| MSI MS K7T TRUBO | $225 |
| MSI MS K7T TRUBO RAID | $275 |
| MSI MS K7T TRUBO RAID I I | $260 |
| MSI K7T266 PRO/AMD | $260 |
| MSI V1A266 PRO/PIII DDR | $295 |
| MSI 645 ULTRA/P4 DDR | $240 |

### Networking

| | |
|---|---|
| ISA 10M network card | $25 |
| PCI 10M network card | $20 |
| 10/100 M pci network card | $21 |
| Intel 10/100 M pci network card | $89 |
| 10M PCMCIA Network card | $62 |
| 10/100 PCMCIA Network card | $87 |
| Network HUB 5 ports, 10M | $49 |
| USB 4 Port HUB W/ Power | $55 |

### PROCESSOR

| | |
|---|---|
| Intel 900 Celeron, S370 | $131 |
| Intel 950 Celeron, S370 | $168 |
| Intel 1000 Celeron, S370 | $175 |
| Intel 1100 Celeron, S371 | $203 |
| Intel 1200 Celeron, S372 | $225 |
| Intel Pentium III-866, S370, | $266 |
| Intel Pentium III-933, S370, | $273 |
| Intel Pentium III-1000, S370, | $300 |
| Intel Pentium III-1.13, S370, | 348 |
| Intel Pentium III-1.26, S370, | 420 |
| Intel Pentium 4-1.5G (478) | $330 |
| Intel Pentium 4-1.6G, (478) | $338 |
| Intel Pentium 4-1.7G, (478) | $408 |
| Intel Pentium 4-1.7G, (423) | $410 |
| Intel Pentium 4-1.8G, (478) | $490 |
| Intel Pentium 4-1.9G, (478) | $600 |
| Intel Pentium 4-2G, (478) | $940 |
| AMD Duron Socket A 800 | $95 |
| AMD Duron Socket A 900 | $100 |
| AMD Duron Socket A 950 | $110 |
| AMD Duron Socket A 1000 | $135 |
| AMD Duron Socket A 1100 | $176 |
| AMD Duron Socket A 1200 | $185 |
| AMD Athlon K7- 1400C | $333 |
| Athlon XP-1600+ CPU | 286 |
| Athlon XP-1700+ CPU | 299 |
| Athlon XP-1800+ CPU | 367 |
| Athlon XP-1900+ CPU | 503 |
| Athlon XP-2000+ CPU | 503 |
| Athlon Heavy Duty CPU FAN | $20 |

### SPEAKER

| | |
|---|---|
| AAA 180W Amplifier speaker | $9 |
| AAA 480W Amplifier speaker | $21 |
| AAA 800W Sub-woofer speaker | $48 |
| AAA 600W Sub-woofer speaker | $24 |
| 80W INTERNAL 5.25" SPEAKER | $16 |
| Creative Desktop Theatre 2200 5.1 | $281 |
| Creative DTT2200 5.1 & SBLive DE 5.1 | $372 |
| Creative DTT2500 Digital 5.1 | $516 |
| Creative DTT2500D Playworks | $550 |
| Creative DTT3500 Digital 5.1 | $728 |
| Creative FPS1000 4.1 | $115 |
| Creative FPS1500 (White) 4.1 | $156 |
| Creative FPS2000 4.1 | $345 |
| Creative PC Works White 2.1 | $72 |
| Creative SW320 SPEAKERS | $81 |
| Creative PS2000 Playworks 2 | $266 |
| Creative SLIM500 Soundworks 2.1 | $173 |
| Altec Lansing ACS33 - 3p Speaker | $82 |
| Altec Lansing ACS45.1 - 3p speaker | $148 |
| Altec Lansing ACS48 - 3p speaker | $254 |
| Altec Lansing ACS54 - 5p speaker | $185 |
| Altec Lansing ACS56 - 5p Speakers | $262 |
| Altec Lansing ADA880 - Dolby- 5 P | $494 |

### SOUND CARD

| | |
|---|---|
| ESS pci sound card, | $24 |
| Creative Vibra 128 PCI card | $42 |
| SoundBlaster Live 5 1 retail | $100 |
| SoundBlaster Audigy Sound Card box | $199 |
| SoundBlaster Audigy Platinum | $400 |
| Sound Blaster Audigy Platinum Ex | $500 |
| Hercules Maxi Game Theater XP | $275 |

### VIDEO CARD

| | |
|---|---|
| 8Mb SiS AGP OR PCI VGA Card | $40 |
| 32Mb RivaTNT2, M64 , AGP | $70 |
| 32Mb GeForce II MX , | $95 |
| 32Mb GeForce II MX, TV out | $106 |
| 64Mb GeForce II MX , | $107 |
| 64Mb GeForce II MX , TV out | $120 |
| 64Mb GeForce II MX 400 , | $131 |
| 64Mb GeForce II MX 400 , TV out | $142 |
| ASUS V7100 32Mb GeForce 2 MX 2V1D | $272 |
| ASUS V7100 32Mb with TV-Out | $176 |
| ASUS V7700 32Mb GeForce 2 GTS with TV-Out | $228 |
| ASUS V7100 64Mb Pro MX400 with TV-Out (SPE. | $189 |
| ASUS V7100 64Mb Pro MX400 with TV-Out | $236 |
| ASUS V7700 32Mb GeForce 2 GTS Deluxe | $389 |
| ASUS V7700 64Mb GeForce 2 Ultra with TV-Out | $499 |
| ASUS V7700 64Mb Pro GeForce 2 Deluxe | $454 |
| ASUS V7700 TI 64Mb GeForce 2 Deluxe Titanium | $418 |
| ASUS V8200 T2 64Mb GeForce 3 Deluxe Titanium | $606 |
| ASUS V8200 64Mb GeForce 3 Deluxe | $809 |
| ASUS V8200 T5 64Mb GeForce 3 Deluxe Titanium | $897 |
| Hercules 64M GeForce 3 Titanium 200 | $480 |
| Hercules 64M GeForce 3 Titanium 500 | $793 |
| HERCULES 3D PROPHET 4000XT 32M | $134 |
| HERCULES 3D PROPHET 4000 TV 32M | $138 |
| WINFAST GEFORCE 3 64MB DDR TDH(200MHZ) +TV | $722 |
| WINFAST GEFORCE 3 64MB DDR TITANIUM500 +TV | $769 |
| WINFAST GEFORCE 3 64MB DDR T200 (175MHZ)+ TV | $480 |
| WINFAST GEFORCE2 64MB PRO DDR +TV | $338 |
| WINFAST GEFORCE2 32MB PRO +TV | $268 |
| WINFAST GEFORCE 2 64MB MX 400+TV | $199 |
| WINFAST GEFORCE 32MB MX200 +TV | $141 |
| WINFAST GEFORCE 32MB MX200 | $118 |
| WINFAST GEFORCE 32MB MX200 PCI | $129 |
| 16 M Millennium 2XHEAD G450 OEM - NO CABLE | $200 |
| 16 M Millennium SINGLE HEAD G450 OEM | $136 |
| 32 M Millennium 2XHEAD G450 OEM NO CABLE | $260 |
| 32 M Millennium 2XHEAD G550 OEM NO CABLE | $290 |
| TV-OUT CABLE FOR G450/G550 OEM | $29 |

### IOMEGA DRIVE

| | |
|---|---|
| External 100 Mb EPP | $253 |
| External 100 Mb USB | $173 |
| Internal 100 Mb IDE | $129 |
| Internal 250 Mb IDE | $184 |
| External 250Mb EPP | $376 |
| External 250Mb USB | $365 |
| 100Mb Zip Disk | $19 |
| 250Mb Zip Disk | $21 |
| PEERLESS FIREWIRE or USB 10GB | $788 |
| PEERLESS FIREWIRE or USB 20GB | $900 |
| PREDATOR USB 8x4x32 | $535 |
| PREDATOR Firewire 8x4x33 | $730 |
| POCKETZIP PC CARD DRIVE | $116 |

### PRINTERS

| | |
|---|---|
| HP DESKJECT 650C | $123 |
| HP DESKJECT 840C | $160 |
| HP DESKJECT 845C | $165 |
| HP DESKJECT 930C PHOTO | $225 |
| HP DESKJET 948C | $250 |
| HP DESKJECT 960C | $415 |
| HP DESKJECT 970CXI | $425 |
| HP DESKJECT 990CXI | $550 |
| HP DESKJECT 1120CXI | $620 |
| HP DESKJECT 1220C | $760 |
| HP DESKJECT 1125C | $530 |
| HP DESKJECT 1160C | $950 |
| HP DESKJECT CP1700C | $1,050 |
| HP DESKJECT 2200C | $922 |
| HP DESKJECT 2500C | $1,690 |
| HP PHOTOSMART P1215 | $650 |
| HP PHOTOSMART P1218 | $788 |
| HP LASERJET 1000 | $565 |
| HP LASERJET 1200 | $720 |
| HP LASERJET 1200N | $1,227 |
| HP LASERJET 1220 | $875 |
| HP LASERJET 2200D | $1,450 |
| HP LASERJET 2200DN | $1,900 |
| HP LASERJET 2200DNT | $2,455 |
| HP LASERJET 2100M | $1,199 |
| HP LASERJET 4100 | $2,116 |
| HP LASERJET 4100N | $2,800 |
| HP LASERJET 4550 COLOR | $3,675 |
| HP LASERJET 4550N COLOR | $4,315 |
| HP LASERJET 4550DN | $7,518 |
| HP LASERJET 5000 | $2,537 |
| HP LASERJET 8150 | $4,188 |
| HP LASERJET 9000 | $7,521 |
| HP OfficeJet 725, fax/printer/scanner | $367 |
| HP OfficeJet G85, fax/printer/scanner | $1,243 |
| HP OfficeJet G95 fax/printer/scanner | $1,606 |
| HP OfficeJet K60, fax/printer/scanner | $828 |
| HP OfficeJet T65, fax/printer/scanner | $487 |
| HP OfficeJet PSC750, fax/printer/scanner | $750 |
| Epson Stylus 580 usb | $90 |
| Epson Stylus C20UX | $115 |
| Epson Stylus C40UX | $150 |
| Epson Stylus C40SX | $150 |
| Epson Stylus C60 | $242 |
| Epson Stylus C70 | $375 |
| Epson Stylus C80 | $525 |
| Epson Stylus 980 | $640 |
| Epson Stylus 1160 | $525 |
| Epson Stylus 3000 | $1,775 |
| Epson Photo 810 | $327 |
| Epson Photo 895 | $632 |
| Epson Photo 1290 | $890 |
| Epson Photo 2000P | $1,615 |
| Canon BJC 2100 | $110 |
| Canon BJC-5500 | $1,136 |
| Canon S300 2440DPI | $245 |
| Canon S400 | $209 |
| Canon S450 | $268 |
| Canon S600 | $490 |
| Canon S800 | $540 |
| Canon S4500 | $575 |
| Canon BJC-55 Portable | $520 |
| Canon BJC-85 Portable | $340 |
| Canon LASER LBP-810 | $468 |

### SCANNER

| | |
|---|---|
| HP Scanjet 2200 | $164 |
| HP Scanjet 4400 | $250 |
| HP Scanjet 4470 | $336 |
| HP Scanjet 5370 | $550 |
| HP Scanjet 5400 | $374 |
| HP Scanjet 5470 | $497 |
| HP Scanjet 6300 | $599 |
| HP Scanjet 7400c | $918 |
| HP Scanjet 7450c | $1,320 |
| Canon FB 640pex | $125 |
| Canon FB 660U | $250 |
| Canon FB 670U | $165 |
| Canon FB 1230U | $375 |
| Canon FB 1220U | $245 |
| Epson Perfection 640U | $241 |
| Epson Perfection 1240U | $374 |
| Epson 1200 Series SCSI | $474 |
| Epson 1250 | $215 |
| Epson 1250 Photo | $285 |
| Epson 1650 | $355 |
| Epson 1650 Photo | $408 |
| Epson 1680 | $1,829 |
| Epson 16840XL(A3) | $4,989 |

### MONITOR

| | |
|---|---|
| 15" LG 552V | $235 |
| 17" LG 775N | $299 |
| 17" LG 775FT | $399 |
| 17" LG 795FT | $475 |
| 19" LG 995E | $699 |
| 15" PHILIPS 105E | $240 |
| 17" PHILIPS 107E | $360 |
| 17" PHILIPS 107S | $399 |
| 17" PHILIPS 107T | $462 |
| 17" PHILIPS 107P | $572 |
| 19" PHILIPS 109S | $750 |
| 19" PHILIPS 109P | $934 |
| 21" PHILIPS 201B | $1,621 |
| 21" PHILIPS 201P | $1,799 |
| 15" MITSUBISHI DV1554 | $260 |
| 17" MITSUBISHI 1770G | $315 |
| 17" MITSUBISHI DV1786 | $430 |
| 19" MITSUBISHI DV1995 | $625 |
| 19" MITSUBISHI DV19NF | $999 |
| 15" SONY CPD-100 | $450 |
| 17" SONY E220 | $575 |
| 17" SONY E230 | $590 |
| 19" SONY G420 | $1,150 |
| 21" SONY G520 | $1,945 |
| 15" HYUNDAI | $245 |
| 17 HYUNDAI V770 | $333 |
| 19" HYUNDAI P910+ | $512 |
| 17" VIEWSONIC E70 | $299 |
| 17" VIEWSONIC E70F | $375 |
| 17" VIEWSONIC PS775 | $375 |
| 17" VIEWSONIC PF775 | $575 |
| 19" VIEWSONIC E95 | $599 |
| 19" VIEWSONIC PF790 | $850 |
| 21" VIEWSONIC G810 | $1,260 |
| 15" DELL | $145 |
| 17" ACER | $300 |
| 15" GATEWAY EV500 | $195 |
| 17" GATEWAY EV700 | $259 |
| 17" HITACHI CM615 | $345 |
| 17" HITACHI CM621 | $447 |
| 19" HITACHI CM721 | $750 |
| 21" HITACHI CM823 FLAT | $1,638 |

### LCD Panel

| | |
|---|---|
| 14' ACER FP 450 | $665 |
| 15" ACER FP 555 | $740 |
| 15" ACER FP 583 M/M | $775 |
| 15" ACER FP 581 Slim | $875 |
| 15" HYUNDAI | $799 |
| 15" Viewsonic VE150 | $999 |
| 15" Viewsonic VE150B | $799 |
| 15" Viewsonic VG151 | $1,190 |
| 15" Viewsonic VP150M | $1,475 |

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## IBM THINKPAD 600 NOTEBOOK

· Intel Pentium II 300Mhz CPU · 64MB RAM · 1.44MB FDD · 5.0GB Hard Disk Drive · 24 x CD ROM · 13.3" Active Colour Display · Integrated 56 K Modem · 240V Adaptor and Carry Case · Windows 95 CD and Manual

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## MILLENIUM 900 — THE NEXT GENERATION

· Intel Celeron 900 Mhz CPU · 128MB RAM · 1.44MB FDD · 10GB IDE Hard Disk Drive · 52 X CD ROM · 16 bit Stereo Sound Card & 120W Speakers · Integrated AGP Video Adapter · Internal 56K Modem · Dual USBPorts · Refurb 15" Hi Res Colour Digital Monitor · PS/2 Keyboard, Mouse · Attractive Midi Tower Case · 24 Months Warranty

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## MARLIN 933 — PERFORMANCE WITHOUT THE PRICE TAG

· Intel Pentium III 933 Mhz CPU · 128MB SD RAM · 1.44MB FDD · 20GB IDE HDD · IDE CD ROM · 16 bit Stereo Sound Card & 120W Speakers · Integrated AGP Video Adapter · Internal 56K Modem · Dual USBPorts · Refurb 15" Hi Res Colour Digital Monitor · PS/2 Keyboard, Mouse · Attractive Midi Tower Case · 24 Months Warranty

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## GT4 - 1.6 — THE PERSON WHO WANTS TO GO THE FASTEST

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BONUS 100 INTERNET HOURS AND SOFTWARE INCLUDED

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## HP NET SERVER E45 — WHEN ONLY THE BEST WILL DO

· Intel Pentium II 233 MMX CPU · 64MB RAM · 1.44MB FDD · SCSI 4.3 GB Hard Disk Drive · 52 x CD ROM · 4/8 Gig Tape Backup Unit · Refurb 15" Hi Res Colour Digital Monitor · Keyboard, Mouse · Attractive Desktop Case · Windows NT 4.0 WS CD and Manual

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17" DIGITAL $289 inc GST

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-15" Philips Autoscan Monitor
-1280 x 1024 optimal resolution
-Front firing stereo speakers
-Built-in microphone

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### HP SCANJET 3200c

Quick and easy installation with parallel interface. A4 scan size. Supports Windows 95 and 98. 600 dpi optical resolution with 9600 dpi enhanced resolution. It is so simple and easy to use, you will be scanning in minutes the perfect scanner for family projects!

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## MAXI RADIO FM TUNER CARD

Listen to the radio on your PC with a high sound quality thanks to the New Generation FM Tuner : Automatically find stereo stations and save your favourite frequencies. Alarm included.

$49.95 INCL GST

## JAMCAM DIGITAL CAMERA

The JamCam Digital Camera offers both USB and Serial connection and high quality pictures. With it's built-in flash you can take photos at any time. Includes cables, drivers and software.

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Add a 32MB MMC Card for Only $99 inc GST

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- 1200 X 1200 dpi.
- LexExpress™ One year exchange warranty.
- Auto-Feed™ paper handling which eliminates jams.
- Up to 6 ppm black
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- Ink level indicator.

including GST $119 or $99 With any PC purchase

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| 16MB 72 Pin Fast Page | Sav |
| 32MB 72 Pin EDO | $80 |
| 32MB 168 Pin SDRAM P66 | $35 |
| 64MB 168 Pin SDRAM P100 | $60 |
| 128MB 168 Pin SDRAM P133 | $11 |
| 256MB 168 Pin SDRAM P133 | $180 |

## STORAGE HDD/FDD

| | |
|---|---|
| 1.44MB, 3.5" FDD | $10 |
| 1GB SCSI HDD | $46 |
| 4.3GB SCSI HDD | $77 |
| 1.7GB IDE HDD | $69 |
| 2.1GB IDE HDD | $75 |
| 10GB IDE HDD | $170 |
| 20GB IDE HDD | $145 |
| 40GB IDE HDD | $287 |

## PROCESSORS

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| Intel Pentium 133/166MHz | $22/$29 |
| Intel Pentium 200MMX | $120 |
| Intel Pentium Pro200MHz | $49 |
| Intel Pentium II 233MHz | $99 |
| Intel Pentium II 266MHz | $109 |
| AMD K6/2 380MHz | $99 |
| Celeron 850MHz Socket 370 | $179 |
| Pentium III 933MHz Socket 370 | $480 |
| Pentium 4 1.6Gig Socket 423 | $59 |
| Pentium Overdrive Processor | $49 |
| Pentium Heatsink & Fan | $16 |

## MULTIMEDIA

| | |
|---|---|
| 16bit ISA Sound Card | $29 |
| 32bit PCI Sound Card | $75 |
| Creative ISA Vibra 16 | $39 |
| 120W Speakers | $20 |
| 4 x IDE CDROM | $50 |
| 52 x IDE CDROM | $89 |
| 16x10x40 CDR-W | $349 |

## MAINBOARDS

| | |
|---|---|
| Pentium ATX Slot 1 | Sav |
| NEC Power TX AT mainboard | $99 |
| Pentium III Micro ATX Socket 370 (Built in Video, Sound Network) | $169 |
| Pentium AT Socket 370(all in one) | $119 |
| Pentium AT Slot 1 (all in one) | $119 |

## VIDEO CARDS

| | |
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| PCI 1MB/2MB | $20/$25 |
| PCI 8MB | $69 |
| AGP 4MB | $29 |
| AGP 16MB with TV Out | $59 |
| AGP 32MB with 3D Glasses | $139 |

## MODEMS

| | |
|---|---|
| NetComm 56k Internal Modem | $59 |
| PCMCIA 33.6k Modem | $69 |
| Acorn 56K External Modem V92 ready | $95 |

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- 600VA • Frequency 50/60 Hz
- Critical Protection for Power
- Recharge time 8 hrs
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- Maintenance Free Battery
- Auto Shutdown Facility
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## SCSI TAPE DRIVE

Hewlett Packard SureStore. Store your data safe and secure. Capacity of 8GB (compressed) or 4GB (uncompressed). With a typical speed of 25-35MB per minute on Pentium computers. Automate or scheduled your back-up.

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## 3 COM HUB

A popular entry-level hub is the 3Com Office Connect Hub, featuring eight Ethernet ports to support up to eight users

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## LASER PRINTER

Fully refurbished Lexmark Optra S1250n, network ready and well below half replacement price
- 20MB RAM • 12 PPM
- Network Card Interface
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## MO DISC DRIVE

Fujitsu Magneto Optical SCSI Drive is as fast as it gets. New 640MB MO Cartridge (about the size of a 3.5 inch floppy), all ready to run out of the box!

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## SCSI HDD 4.3GB

Super Fast refurbished 4.3GB SCSI Hard Disk Drive. Formatted Error Free.

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# TELEPHONE LINE SHARING

## Australian Made Solutions for Businesses of All Sizes

## HOT NEW PRODUCTS

### CALL RECORDING UNIT

Record your telephone calls to PC, or other recorder, from an ordinary single line or any multi-line phone system. Automatic operation with start/stop capability from any handset. PC software & cables supplied.

### CLI READER - Calling Number Display

Identify & display information on your callers before answer, with PC pop up display. Operates with an ordinary single line or any multi-line phone system. PC software & cables supplied.

### LOG OUTGOING CALLS.

Record the phone number, time & date of ALL your outgoing calls to your PC. Check your Phone Bills ! Operates with an ordinary single line or any multi-line phone system. PC software & cables supplied.

### NETWORK ISOLATION UNIT

100% Network Firewall Protection! This unit automatically disconnects your Modem Server from your network whenever the modem makes or receives calls and reconnects the modem when it is finished.

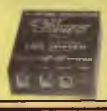
## SHARE YOUR LINES AND SAVE INSTALLATION & RENTAL CHARGES

### FAXSTREAM DUET SWITCHES

Will allow any Fax or Modem device to operate with the Telstra FaxStream Duet service. Provides fully automatic fax reception, just like having a separate line. Two models available.

### VOICE/FAX/MODEM FAXSWITCHES

Integrate ANY Fax (or Modem) into ANY telephone line for fully automatic fax reception. Operates with or without an answering machine. Just plug it into any telephone socket. Two models available.

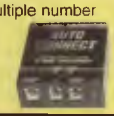


### FAX/MODEM SWITCHES

Allow one or more Modems and/or EFT-POS devices to automatically share one line OR your existing dedicated Fax line. Provides incoming & outgoing call selection. Just plug it into any telephone socket. Three models available.

### EASYCALL MULTIPLE NUMBER

Operate Two numbers on one line. Auto-Connect will connect your Multiple number calls to one set of phones or answering machine and your Normal number calls to another set of phones or answering machine.



## ARE YOUR PRODUCTS OR SERVICES WORTH TALKING ABOUT ?

### TALKING DISPLAY UNIT

TDU will play 1 or more pre-recorded messages as soon it is triggered by a movement sensor, a switch, or at a preset time interval. Ideal for Product Promotions, Product Information, Message Warnings etc.

### MULTIPLE INPUT UNIT

MIU allows for up to 12 separate movement sensors or switches to be connected to the TDU. Each sensor triggers its own unique message, output via any 8 ohm unpowered, powered or amplified speaker.

### SPEAKER SWITCHING UNIT

SSU allows for up to 12 separate speakers to be connected to the TDU so that each sensor triggers its own separate message, output on its own separate speaker. Background music can be played at all other times.

### AUDIO SWITCHING UNIT

ASU allows the TDU to be connected to any existing PA or Background Music system. The existing PA or Background Music system is then muted or faded whenever a TDU message is broadcast and then reconnected when finished.

## CONTROL YOUR EQUIPMENT BY TELEPHONE LINE

### REMOTE TELEPHONE ACTIVATOR

Call in to Switch ON, Switch OFF or RESET your PC, SERVER or any electrical equipment by telephone line using touch tone commands. RTA connects to any telephone line. Requires PCU or PCR accessory.

### RTA-PRO VERSION

PRO version provides independent control of 2 separate outputs, with PIN number security. Status tones for each output are provided on answer. Shares an existing line when used with the Multiple Number service.

### POWER CONTROL UNIT

PCU connects direct to the RTA and also to your power socket to allow telephone line dial in switching of the 240V supply connected to your equipment. Easy Plug In User Installation. Controls up to 10 Amps.

### PC RESET UNIT

PCR connects to any PC to allow remote telephone PC RESET, or can also be used to turn ON or OFF PC's with ATX style motherboards. Easy User Installation.

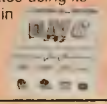
## MUSIC OR MESSAGE ON HOLD FOR ANY LINE

### DIGITAL MESSAGE CENTRE

DMC is Australia's #1 Message on Hold player. Low Cost, High Quality unit provides many years of trouble free operation. Message updates via plug in non volatile digital memory cartridges. Fit DMC and stop paying Radio on Hold licence fees.

### MESSAGE UPDATE BY MODEM

DMC-PRO is our latest MP3 based product It allows dial in Message Updates using its internal modem option or plug in flash card. We have a national network of Dealers ready to produce your customised messages.

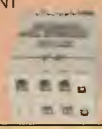


### SINGLE LINE ON HOLD

Just plug our MOH Line Sharer into any socket on your telephone line, connect any audio source (Radio, PC or DMC) and you now have a professional telephone line On Hold facility for your existing telephones.

### AUTOMATIC ATTENDENT

Our single line CALL ATTENDENT will answer your incoming calls after 4, 6 or 8 rings, play a greeting & message to your callers until you are able to answer. Also provides Message on Hold facility.



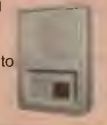
## TELEPHONE LINE DOOR STATION AND TRANSFER

### DOOR STATION UNIT

Will RING all of your telephones when a visitor arrives at your front door or gate. Answer to communicate. Open the door or gate with touch tones. Operates on any ordinary single line or multi-line phone system. Requires Door Phone.

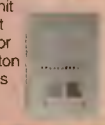
### SURFACE MOUNT DOOR PHONE

This unit provides for quick and easy mounting direct onto any wall surface. Your visitor just presses the integral call button to ring your telephones. Provides clear 2 way communication as soon as you answer.



### FLUSH MOUNT DOOR PHONE

This attractive Stainless Steel unit is designed for a flat recessed fit into your wall surface. Your visitor just presses the integral call button to ring your telephones. Provides clear 2 way communication as soon as you answer.



### TELEPHONE CALL TRANSFER

Easy-Transfer allows you to answer a call on one telephone and then TRANSFER the call to another telephone fitted to the same line. Also provides INTERCOM facility. Uses your existing telephones.

## TELEPHONE LINE SIMULATORS FOR TESTING, TRAINING, DEMONSTRATION

### RINGMASTER STD

Will allow any 2 telephone devices to ring and communicate with each other, without the need to make costly calls and occupy 2 lines. Ideal for Testing, Training & Demonstration of all telephone devices.

### RINGMASTER PRO

Provides all facilities of the STD model, and in addition provides Australian Dial Tone, Busy Tone and multiple ring outputs including FaxStream Duet & Multiple Number ring. Also available with USA, UK, or other output.

### RINGMASTER CLI

Provides all facilities of the PRO model and in addition will generate CallerID (Calling Number Display) output in conjunction with any Telstra ring pattern. Provides 10 preset outputs, plus Alphanumeric & user definable transmissions.

### INTERNATIONAL & METER PULSE

International Version provides switch selectable dial tone, busy tone and ring output emulation for over 20 countries.

Meter Pulse model will output 12 kHz meter pulses for payphone/hotel testing

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56k Internal V90 Modem
MS WINDOWS XP Home (OEM)

$2180

### THIS MONTH'S SPECIALS

**HOME NETWORK KIT**
All you need for a 2 station Home network
Fits any computer with spare PCI slot

You get:
2 x 10/100 Network cards
1 x 5mtr Xover network cable

All for $70.00
Post Free anywhere in Australia

**MODEM**
56k Internal PCI modem for $36.00
Post Free anywhere in Australia
(Needs Pentium MMX CPU and spare PCI slot)

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$164.00

### 1 Gig POWER Celeron/P111 System
### WITH MONITOR & CD BURNER

Intel 1Ghz CPU
ASUS TUSI-M Motherboard
128m SD PC 133 RAM
20g Ultra EIDE 7200 Hard Disk
1.44 Floppy Disk Drive
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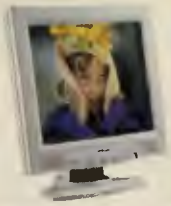
Deluxe Midi Tower Case
Deluxe Keyboard
Browser Wheel Mouse & Mat
LG 40x16x10 CDRW drive
180w PMPO Speakers
56k Internal V90 Modem
MS WINDOWS XP Home (OEM)

**With 1Gig Celeron $1300**
**With 1Gig Pentium 111 $1480**

Stylus Colour C20UX
$124.00



HITACHI 17" TFT CML 1702
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HITACHI 15" TFT CML 153
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| Intel Celeron 900A (oem) (S370) | $141 |
| Intel Celeron 1000A (oem) (S370) | $198 |
| Intel Pentium 4-1.5GHz B ver Socket 478 | $394 |
| Intel Pentium 4-1.6GHz B Ver Socket 478 | $437 |
| Intel Pentium 4-1.7GHz B Ver Socket 478 | $493 |
| Intel Pentium 4-1.8GHz B Ver Socket 478 | $591 |
| Intel Pentium 4-1.9GHz B Ver Socket 478 | $678 |
| Intel Pentium 4-2.0GHz B Ver Socket 478 | $1,047 |
| AMD Duron 850 (oem) (Socket A) | $108 |
| AMD Duron 900 (oem) (Socket A) | $117 |
| AMD Duron 950 (oem) (Socket A) | $122 |
| AMD Duron 1000 (oem) (Socket A) | $142 |
| AMD Duron 1200 (oem) (Socket A) | $191 |
| AMD Athlon XP 1600+ Socket A | $301 |
| AMD Athlon XP 1700+ Socket A | $367 |
| AMD Athlon XP 1800+ Socket A | $496 |
| AMD Athlon XP 1900+ Socket A | $623 |
| AMD Athlon XP 2000+ Socket A | $750 |

## MOTHERBOARDS

| | |
|---|---|
| Abit KT7A 200/266(VIA, Soc-A) | $238 |
| Abit KT7A RAID (VIA, Soc-A) | $277 |
| Abit KR7A (VIA KT266A, DDR, Soc-A) | $323 |
| Abit KR7A RAID (VIA KT266A, DDR, Soc-A, RAID) | $422 |
| Abit KT7A RAID (VIA, Soc-A) | $281 |
| Abit KG7 AMD 761/686b 200.266DDR 4xDimm | $323 |
| Abit KG7 Raid AMD 761/686b 200/266DDR 4xDmm | $376 |
| Abit TH7 Raid Intel 850 Skt 478 | $396 |
| Abit TH7II Raid Intel 850 Skt 478 ATX | $495 |
| AOpen MX3S (815, S370, M-ATX, All-in-One) | $286 |
| AOpen AX3S (815, S370, VGA, Audio, U-100) | $261 |
| AOpen MK73 Duron all in one (Vid, Audio) | $165 |
| AOpen AK73 (KT-133A, Soc-A, ATA100 ) | $251 |
| Asus TUSI-M (SiS, S370, M-ATX, VGA, LAN, Audio) | $165 |
| Asus TUSL2-C (815, S370, U-100, AGP Pro 4x) | $247 |
| Asus A7V133-C (VIA, Soc-A, U100, No Raid) | $231 |
| Asus A7V/266-e(KT266a,Soc-A,U-100,DDR,AGP pro4x) | $360 |
| Asus A7A/266-e(Soc-A,U-100,Audio,AGP Pro4x) | $327 |
| Asus A7M/266 (VIA, Soc-A, U-100) | $370 |
| Asus P4T-E Motherboard (Intel 850 Chipset for P4 Soc 478) | $455 |
| Asus P4B (845, U-100, AGP Pro 4x) | $372 |
| Intel BOXD850mv Garfield Board for P4 soc 478 RDram | $356 |
| Intel D845WN Skt 478, audio 3xSDRAM, 6 x PCI | $317 |
| Intel D850MD P4 Skt 478, RD ram (3X PCI) | $326 |
| Gigabyte GA-6VTXE (VIA, S370, AGP 4x, U100) | $158 |
| Gigabyte GA-72MMH(i266)(SD RAM,VIA,Soc-A,ATX,Audio) | $205 |
| Gigabyte GA-81DX (P4, Skt478, SDRAM, 6xPCI) | $304 |
| Gigabyte 7VTXE, VIA, 266FSB, DDR, 200/266 | $219 |
| GigabyteGA-7VTXH (Soc A, Athlon XP, LAN) | $235 |
| MSI 850 Pro (850, SKT-423, U-100, Audio) #6339 | $380 |
| MSI 845 Pro (845, SKT-423, SD RAM U-100, Audio) | $337 |
| MSI K7T TurboLimited(KT133A,SKT-A,U-100,Audio)#6330limit | $253 |
| MSI 6378f(KLE-133,SKT-A,VGA,Audio,U-100)#6378wclan | $156 |
| MSI K7T266 PRO2 (PRO-266, SKT-A, U-100) | $275 |
| MSI K7Master(AMD760SP,SKT-A,Audio,U-100)#6341 | $350 |

## MEMORY

| | |
|---|---|
| 128MB PC133 SDRAM 168pin (HY/MT) | $105 |
| 256MB PC133 SDRAM 168pin (HY/MT) | $172 |
| 512MB PC133 SDRAM 168pin (HY/MT) | $358 |
| 128MB PC133 SDRAM 168pin (oem) | $89 |
| 256MB PC133 SDRAM 168pin (oem) | $157 |
| 512MB PC133 SDRAM 168pin (oem) | $343 |
| 64MB Rambus RDRAM RIMM 800Mhz | $67 |
| 128MB Rambus RDRAM RIMM 800Mhz | $122 |
| 256MB Rambus RDRAM RIMM 800Mhz | $241 |
| 128Mb DDR DIMM PC2100 | $122 |
| 256Mb DDR DIMM PC2100 | $215 |
| 512Mb DDR DIMM PC2100 | $454 |

## HARD DISKS - IDE

| | |
|---|---|
| 20Gb Seagate Barracuda 2M 7200 | $192 |
| 40Gb Seagate Barracuda 2M 7200 | $243 |
| 80Gb Seagate Barracuda 2M 7200 | $434 |
| 40Gb IBM Deskstar U-100 2M 7200 | $272 |
| 60Gb 60GXP IBM Deskstar U-100 2M 7200 | $361 |
| 60Gb Maxtor U-100 2M 7200 | $330 |
| 20Gb Maxtor U-100 5400 | $178 |
| 20Gb Maxtor U-100 7200 | $191 |
| 20Gb WD Caviar U-100 5400 | $185 |
| 40 Gb WD Caviar U-100 5400 | $219 |
| 20Gb WD Caviar U-100 7200 | $198 |
| 40Gb WD Caviar U-100 7200 | $242 |
| 80Gb WD Caviar U-100 7200 | $495 |

## HARD DISKS - NOTEBOOK

| | |
|---|---|
| 20GB IBM Diablo Ultra ATA 9.5mm | $359 |
| 30GB IBM Diablo Ultra ATA 9.5mm | $599 |
| 48GB IBM Diablo Ultra ATA 9.5mm | $1,079 |

## HARD DISKS - SCSI

| | |
|---|---|
| 18Gb Maxtor V U-160 LVD68 10k | $457 |
| 36Gb Maxtor V LVD68 | $939 |
| 18.4Gb Seagate Barracuda U-160 LVD68 | $514 |
| 36.4Gb Seagate Barracuda U-160 LVD68 | $746 |
| 18.4Gb Seagate Cheetah LVD68 10,000rpm | $509 |
| 36.7Gb Seagate Cheetah LVD68 10,000rpm | $972 |
| 73.4Gb Seagate Cheetah LVD68 10,000rpm | $1,862 |
| 18Gb Seagate Cheetah LVD68 15,000rpm | $746 |
| 18Gb IBM Ultrastar 36LZX U-160 10k LVD68 | $476 |
| 36Gb IBM Ultrastar 36LZX U-160 10k LVD68 | $1,013 |

## FDD & STORAGE DEVICES

| | |
|---|---|
| 1.44MB, 3.5" Floppy Disk Drive | $27 |
| Iomega 100M Zip Int. IDE (oem) | $121 |
| Iomega 100M Zip Ext. Parallel | $268 |
| Iomega 100M Zip Ext. USB | $232 |
| Iomega 100M ZIP Media | $25 |
| Iomega 250M Zip Int. IDE (oem) | $201 |
| Iomega 250M Zip Ext. Parallel | $367 |
| Iomega 250M Zip Ext. USB HOST POWERED | $354 |
| Iomega 250M Zip Ext. USB&PCMCIA | $431 |
| Iomega 250M ZIP Media | $31 |
| ORB 2.2GB Int. IDE Drive (oem) | $370 |
| ORB 2.2GB Ext. USB Drive (retail) | $515 |
| ORB 2.2GB Disk Media | $74 |
| ORB 5.7GB Int. IDE Drive | $772 |
| ORB 5.7GB Ext. Firewire Drive | $1,024 |
| ORB 5.7GB Disk Media | $156 |

## VIDEO & GAMES CARDS

| | |
|---|---|
| 8M Eagle Trident AGP VGA Card | $54 |
| 32M TNT2 M64 AGP | $84 |
| 32M TNT2 M64 PCI (Retail) | $107 |
| 64m GeForce II MX400 tv out | $169 |
| 64M Asus V7100 GeForce II MX400 TV Out | $206 |
| 32M Asus V7100 GeForce II MX 2VID | $300 |
| 64M Asus V7700 GeForce II Ti Deluxe | $466 |
| ASUS Geforce 3 V8200 DELUXE | $846 |
| 32M Radeon DDR AGP LE Version (oem) | $227 |
| 32M ATI Rage Fury Pro AGP VIVO (oem) | $204 |
| 32M ATI Rage Fury Pro AGP VIVO (Retail) | $227 |
| 32M Radeon DDR VE Dual Head (Retail) | $262 |
| 64M ATI Rage Fury MAXX AGP | $258 |
| 32M ATI All-in-Wonder 128 PCI (Retail) | $453 |
| 32M ATI All-in-Wonder 128 Pro AGP (Retail) | $383 |
| 32M ATI All-in-Wonder 128 DDR AGP (Retail) | $587 |
| 64M ATI Radeon DDR VIVO AGP (Retail) | $487 |
| 32M Leadtek Winfast Geforce II MX 200 (oem) | $112 |
| 64M Leadtek Winfast GeForce MX-400/TV (retail) | $176 |
| 64M Leadtek Winfast GeForce II GTS TV Ultra | $872 |
| 64M Leadtek Winfast GeForce III TV DVI 200 (Retail) | $502 |
| 64M Leadtek Winfast GeForce III TV DVI 500 (Retail) | $727 |
| 32m Leadtek Titanium DDR TV out | $301 |
| 64m Leadtek Titanium DDR TV out | $351 |
| 32M Millenium G550 Dual Head DDR 360Mhz (oem) | $308 |
| 64M Morpheus Ti 200 DVI | $488 |
| 64M Morpheus Ti 500 DVI TV Wooden Box | $877 |
| 32MB 3D Prophet DDR-DVI (TV+Flat Panel) | $250 |
| 32MB 3D Prophet 4000 XT PCI 128bits | $169 |
| 32MB 3D Prophet 4000 XT AGP 128bits (OEM) | $124 |
| 32MB 3D Prophet 4000 XT AGP 128bits with TV Out | $137 |
| 64MB 3D Prophet 4500 AGP with TV Out | $270 |
| 32m 3D Prophet II MX AGP | $177 |
| 32m 3D Prophet II MX AGP DUAL DISPLAY | $219 |
| 64m 3D Prophet II Titanium + TV Out | $349 |
| 64m 3D Prophet III Ti200 (TV Out) | $477 |
| 64m 3D Prophet III Ti500 (TV Out & DVI Out) | $890 |
| 64M 3Dlabs Wildcat II 500d | $2,370 |
| 128M 3Dlabs Wildcat II 5110 (Fastest Available) | $5,007 |

## MONITORS

| | |
|---|---|
| LG 15" 560N | $232 |
| NEC V520 Multisynch | $307 |
| Mitsubishi D/view 1770G 17", .27 | $326 |
| Mitsubishi D/view 17NF 17", .25 (Flatron) | $639 |
| Mitsubishi D/view 1995SL 19" | $648 |
| Mitsubishi D/view 19NF 19", .25 (Flatron) | $670 |
| Mitsubishi D/view 2107 21", .26 1600x1280 | $1,549 |
| Acer 771 17", .27 1280x1024 60Hz | $328 |
| Acer 99si 19", .26 1600x1200 75Hz | $755 |
| Acer 211C 21", .26 1600x1200 75Hz | $1,663 |
| Gateway EV500 15 (1Yr RTB Warranty) | $179 |
| Gateway EV700 17" (1Yr RTB Warranty) | $289 |
| Hitachi CM615 17", .24 1280x1024 | $357 |
| Hitachi CM625 17" (Flat Diamondtron) | $477 |
| Hitachi CM715 19", .22 1600x1200 | $602 |
| Hitachi CM721F 19", .20 1600x1200 (Flat) | $765 |
| Hitachi CM828 21", .21 2048 x 1536 | $1,595 |
| Hitachi CM823F 21", .21 2048 x 1536 | $1,712 |
| LG SW775N Studioworks 17" | $366 |
| LG 795FT Flatron 0.25 17" | $677 |
| LG 995E Studioworks 19" | $746 |
| LG 550M MultiMedia Studioworks 15" | $295 |
| LG 775FT Flatron 0.25 17" | $439 |
| Sony E230 17", .24-.25 (Flat Trinitron) | $614 |
| Sony G220 17", .24-.25 (Flat Trinitron) | $851 |
| Sony G420 19", .24-.25 (Flat Trinitron) | $1,210 |
| Sony G520 21", .24 (Flat Trinitron) | $2,069 |
| Viewsonic E53, 15".27, 70khz, 128x1024 | $275 |
| Viewsonic E70, 17".27, 70khz, 128x1024 | $345 |
| Viewsonic E70-F (flat) 17", .25 1280x1024 | $449 |
| Viewsonic E95 19".25, 1280x1024 | $637 |
| Viewsonic G70M 17", .27, 70khz, 1280x1024, speakers | $450 |
| Viewsonic G810-4E 21", .25, 97khz, 1600x1280 | $1,361 |
| Viewsonic P220F 22"Perfect Flat, 1600x1200 | $1,788 |

## LCD MONITORS

| | |
|---|---|
| Acer FP563 15" LCD (Speaker + USB) | $832 |
| Hitachi CML153XW 15" TFT Monitor | $862 |
| Hitachi CML170SXW 17" TFT Monitor | $1,602 |
| LG 15" SW570LE LCD Monitor | $1,472 |
| LG 18" W880LC LCD Monitor | $5,482 |
| Mitsubishi TFT 15" DV152 1024x768 | $869 |
| Mitsubishi TFT 18" RDT180S 1280x1024 | $5,298 |
| NEC 15" LCD 1525V Monitor 1024 x 768 | $2,073 |
| NEC 15" LCD 1525M Monitor 1024 x 768, MultiMedia | $2,284 |
| NEC 18" LCD 1810WS Monitor 1280 x 1024 | $6,453 |
| NEC 20" LCD 2010X Monitor 1280 x 1024 | $9,510 |
| Sony 15" SDMM51 TFT Monitor | $1,263 |
| Sony 15" SDMN50 TFT Monitor | $1,848 |
| Sony 18" SDMN80 TFT Monitor | $4,868 |
| Sony 18" SDMN81 TFT Monitor | $3,999 |

## CASINGS

| | |
|---|---|
| Deluxe Midi Tower ATX 250W | $65 |
| Deluxe Midi Tower ATX 300W (For Pentium 4) | $76 |
| AOpen P4 Full Tower ATX HQ08 300w | $256 |
| AOpen Full Tower ATX HX08 P4 | $213 |
| AOpen Midi Tower ATX P3 KF45 | $94 |
| AOpen Midi Tower ATX P4 KF45 | $107 |
| AOpen Desktop ATX HX95 | $126 |
| Macase Midi Tower ATX KA-80 300W | $139 |
| Macase Midi Tower ATX KA-580WP 300W | $142 |
| Macase Desktop ATX (250W) | $127 |
| Macase Full Tower ka-130p4 Champion | $256 |
| Macase Server Tower ATX KAO66 (1X300W) | $523 |
| Macase Server Tower ATX KAO66 (1X400W) | $908 |
| Macase KI-P32 4U Rackmount ATX Case 300W | $495 |
| Macase 8-Bay Ext. SCSI -50 CDROM tower | $572 |
| Macase 14-Bay Ext. SCSI -50 CDROM tower | $935 |
| Macase KA-036 File Server ATX Cabinet 2x300W | $1,409 |
| Macase KI-P50 5U Rackmount ATX Case 2x300W | $1,939 |
| 250W ATX Power Supply | $44 |
| 300W ATX Power Supply | $53 |

KEYBOARDS

| | |
|---|---|
| Deluxe 104 - Keyboard PS/2 | $15 |
| Acer Accufeel Keyboard PS/2 | $23 |
| Logitech Internet Keyboard PS/2 (oem) | $53 |
| Logitech C'less Keyboard + Mouse (oem) | $119 |
| Logitech C'less Freedom Pro (K/b + Mouse) | $239 |
| Logitech C'less Freedom Optical (K/b + Mouse) | $230 |
| Microsoft Internet Keyboard PS/2 (oem) | $49 |
| Microsoft Ergonomic Elite PS/2 | $63 |
| Microsoft Natural Keyboard Pro PS/2&USB | $124 |

## MICE

| | |
|---|---|
| A4+ 400dpi 2-Button Serial | $7 |
| Browser Wheel Mouse PS/2 | $15 |
| Dual Scroll wheel mouse PS2 | $74 |
| Swann Mini Mouse (Blueberry) USB | $14 |
| Logitech Wheel Mouse PS/2 (oem) | $42 |
| Logitech Wheel Mouse USB (oem) | $42 |
| Logitech Cordless Wheel Mouse PS/2 | $120 |
| Logitech Cordless MouseMan Wheel PS/2 | $108 |
| Microsoft Trekker Mouse PS/2 (oem) | $17 |
| Microsoft Intellimouse PS/2 (oem) | $44 |
| Microsoft Intellimouse Optical USB&PS/2 (OEM) | $60 |
| Microsoft Intellimouse Explorer USB (oem) | $72 |

## CD ROM

| | |
|---|---|
| Samsung / LG 52x CD-ROM Drive | $69 |
| 50x Asus IDE CD-ROM Drive | $63 |
| 40x Plextor SCSI (20MB/s) CD-ROM Drive 50pin HD | $273 |

## DVD ROM

| | |
|---|---|
| Pioneer 16x DVD 40xR IDE Bare Drive (OEM) (#116) | $143 |
| SONY 16XDVD IDE Bare Drive (oem) | $140 |
| Pioneer 10x DVD 40xR SCSI Bare Drive (Retail) | $335 |

## CD REWRITERS

| | |
|---|---|
| Plextor (18x10x40) IDE + Soft + Media | $676 |
| Plextor (12x10x32) SCSI + Soft + Media | $637 |
| Plextor 12x10x32 SCSI External | $831 |
| HP CD4Ce (4x4x6) Ext USB | $483 |
| HP C9628B 16x10x40 IDE | $395 |
| HP 9600se (12x8x32) Ext SCSI | $892 |
| HP DVD WRITER 96198 | $1,450 |
| Ricoh MP5120A ATAPI DVD+RW Drive | $1,104 |
| LG 40 X 16 X 10 CDRW IDE OEM (with justlink) | $176 |
| Ricoh 7240A (24x10x40) IDE Kit (with Justlink) | $232 |
| Creative (24x10x40) | $240 |
| Sony 40x24x10x (oem) + software | $242 |
| Sony 40x24x10x (Retail) + software + Memory Stick Slot | $376 |
| Iomega Zip (4x4x6) Ext USB | $466 |
| Yamaha (20x10x40) SCSI + Soft + Media CRW2200SVK | $477 |
| Yamaha (16x10x40) Ext SCSI + Soft + Media | $646 |
| Yamaha (16x10x24) Ext Firewire + Soft + Media | $772 |

## SOUND CARDS

| | |
|---|---|
| Eagle 16 bit ESS 1938 | $26 |
| Sound Blaster Vibra 128 (oem) | $45 |
| Sound Blaster PCI-128 2-Channel (oem) | $55 |
| Sound Blaster LIVE (oem) | $86 |
| Sound Blaster LIVE DE 5.1 SE | $99 |
| Creative Audigy (retail) | $218 |
| Creative Audigy Platignum | $475 |
| Creative Audigy EAX | $528 |
| GUILLEMOT MAXI SOUNDMUSE (Retail) | $75 |
| Guillemot Maxi Studio ISIS XL | $470 |

## SPEAKERS

| | |
|---|---|
| 180W PMPO Stereo Power | $15 |
| PLC WS-80 720w Sub woofer | $39 |
| Altec Lansing ACS22 - 2p | $45 |
| Altec Lansing ACS33 - 3p | $116 |
| Altec Lansing ACS45.1 Power Cube - 3p | $183 |
| Altec Lansing ACS48 Power Cube - 3p | $322 |
| Altec Lansing ATP3 Slimline Digital -3p | $239 |
| Altec Lansing ATP4 Slimline Speakers -5p (Not Digital) | $297 |
| Altec Lansing ATP5 Slimline Digital -5p | $343 |
| Altec Lansing ACS54 Gamers -5p | $181 |
| Altec Lansing ADA880 Dolby THX - 5.1 Remote System | $990 |
| Altec Lansing AVS 300 | $90 |
| Altec Lansing 621 3p 100W RMS | $330 |
| Altec Lansing 641 5p 200W RMS | $659 |
| Creative Speaker Kiosk Stand | $86 |
| Cambridge PCWorks 3-p | $78 |
| Cambridge FPS1000 4-p Surround | $128 |
| Cambridge FPS1600 4-p Surround | $172 |
| Cambridge FPS2000 4-p Surround Digital | $380 |
| Cambridge DTT2200 5-p Speaker Bundle | $317 |
| Cambridge DTT2500D 6-p Desktop Theater | $564 |
| Cambridge DTT3500D 6-p Desktop Theater | $792 |
| Cambridge SW320 3p wood subwoofer | $90 |
| Logitech SoundMan S-20 | $134 |
| Logitech SoundMan SR-30 | $180 |
| Logitech SoundMan Xtrusio DSR-100 | $383 |
| Yamaha YST-MS201 Digital Surround Speakers | $119 |
| Yamaha TSS1B-True 5.1 Surround Sound System | $442 |

## PRINTERS

| | |
|---|---|
| Brother HL-1250 12ppm 4M Laser | $647 |
| Brother HL-1440 14ppm 2M Laser | $578 |
| Brother HL-1450 14ppm 8M Laser | $703 |
| Brother HL-1470N 12ppm 4M Laser | $981 |
| Brother HL-1670N Duplex 16ppm 16M Laser | $1,402 |
| Brother HL-1650 16ppm 8M Laser Duplex | $1,140 |
| Brother HL-1660e 16ppm 8M Laser | $1,660 |
| Brother HL-2060e 24ppm 16M Laser | $1,952 |
| Brother HL-2400Ce Colour Laser | $3,361 |
| Brother HL-3400CN Colour Laser | $6,257 |
| Brother MP-21C Portable InkJet Printer | $534 |
| Brother MFC-970MC All-in-One Colour InkJet | $520 |
| Brother MFC-7400C All-in-One Colour InkJet | $957 |
| Brother MFC-9200C All-in-One Colour InkJet | $1,447 |
| Brother MFC-4600 Fax/Printer/Copier Laser | $1,026 |
| Brother MFC-8600 All-in-One Laser | $1,515 |
| Brother MFC-9600 All-in-One Laser | $3,679 |
| Samsung ML-4500 8ppm 600dpi | $438 |
| Samsung ML-5200A 10ppm 1200dpi (+USB) | $552 |
| Samsung ML-6060 12ppm 1200dpi | $789 |
| Samsung ML-7050 17ppm | $1,373 |
| Canon BJC-85 Portable | $369 |
| Canon BJC-1000SP | $109 |
| Canon BJC-2100SP 5ppm | $152 |
| Canon S400SP | $224 |
| Canon S450 | $290 |
| Canon S600 | $516 |
| Canon S800 | $564 |
| Canon BJC-4500 (A3) | $596 |
| Canon BJC-4650 (A3) (opt. Scanner) | $400 |
| Canon LBP- 810 12ppm Laser | $500 |
| Canon BJC-8200 | $559 |
| Canon BJC-5500 (A2) | $1,167 |
| Scanner head for 50/65, 4300/4650 #IS22 | $80 |
| Canon LBP810W 8ppm (USB & PARR) | $506 |
| Canon LBP1000 Laser | $1,122 |
| Canon MPC-75 Multifunction Photo BJ 4 in 1 | $524 |
| Canon MPL-60 Multifunction Laser 4 in 1 | $1,201 |
| Epson Stylus Color C20UX (USB) (720x720) | $123 |
| Epson Stylus Color C40UX(USB) (1440x720) | $164 |
| Epson Stylus Color C40SX (PRT) (1440x720) | $164 |
| Epson Stylus Color C60U | $265 |
| Epson Stylus Color C70U | $415 |
| Epson Stylus Color C80 | $582 |
| Epson Stylus Color 980 (2880x720) (+USB) | $692 |
| Epson Stylus Color 1160 (A3+) | $567 |
| Epson Stylus Color 3000 (A2) | $2,010 |
| Epson Stylus Photo 810 (1440x720) (USB) | $351 |
| Epson Stylus Photo 890 (1440x720) (USB) | $505 |
| Epson Stylus Photo 895 (1440x720) (USB) | $733 |
| Epson Stylus Photo 1290 (A3+) | $971 |
| Epson Stylus Photo 2000P (A3+) | $1,723 |
| Epson LX-300+ | $309 |
| Epson AL-C2000 colour laser | $4,572 |
| HP DeskJet 656C | $138 |
| HP DeskJet 845C | $186 |
| HP DeskJet 930C | $272 |
| HP DeskJet 1220C (A3) | $860 |
| HP OfficeJet T65 4 in 1 | $367 |
| HP LaserJet 1200 8ppm | $798 |
| HP LaserJet 1220 8ppm (Scanner) | $955 |
| HP LaserJet 4100 | $2,267 |
| HP LaserJet 5000 A3 | $2,754 |
| Kyocera FS-1000 PLUS | $642 |
| Kyocera FS-1800+ | $1,613 |
| Kyocera FS-3800 | $2,188 |
| Kyocera FS-5900C | $4,080 |
| Kyocera FS-7000+ | $3,891 |
| Kyocera FS-9000 | $4,988 |
| Xerox DocuPrint DPPBex (8ppm, 600dpi, 4MB, USB) | $422 |
| Xerox DocuPrint DPM750(10ppm,1200dpi,2MB,USB) | $296 |
| Xerox DocuPrint DPM760(12ppm,1200dpi,4MB,USB) | $320 |
| OKI OKIPAGE 8IM (Blueberry) | $432 |

## SCANNERS

| | |
|---|---|
| Acer 3300u (600x1200) | $119 |
| Acer ScanWit 2720S Film Scanner | $677 |
| Canon CanoScan N640P (600x1200) | $145 |
| Canon CanoScan N650U USB (600x1200) | $184 |
| Canon CanoScan FB1230U USB (1200x2400) | $399 |
| Canon CanoScan N1240U USB (1200x2400) | $301 |
| Canon CanoScan N2400UF | $800 |
| Epson Perfection1250 USB (600x2400) | $227 |
| Epson Perfection 1250 photo USB (1200x2400) | $461 |
| Epson Perfection 1650 | $356 |
| Epson Perfection 1650 Photo | $463 |
| Fujitsu 3091 DC | $1,235 |
| HP ScanJet 2200C | $182 |
| HP ScanJet 4400C USB | $272 |
| HP ScanJet 4470C USB | $366 |
| HP ScanJet 5400C USB | $415 |
| HP ScanJet 5470C USB | $557 |
| HP ScanJet 5370C USB | $612 |
| Microtek Scanmaker 4600 usb | $329 |
| Microtek X12 USL SCSI & USB | $583 |
| Microtek Scanmaker 5700 Firewire & USB | $976 |
| Microtek ScanMaker 8700 (1200x2400) USB&FW | $2,093 |

## MODEMS

| | |
|---|---|
| 56K V90 Fax Modem Internal (oem) | $39 |
| 56K V90 Fax Modem Internal Web Excel | $45 |
| Netcomm InModem 56K V90 Int. PCI (Retail) | $60 |
| Dynalink56k Ext, Answer Machine/Fax/Data | $87 |
| 3Com USR FaxModem 56K Ext. | $230 |
| Swann Turbo 56K External Modem | $150 |

## NETWORK ADAPTORS

| | |
|---|---|
| Skymaster PCI 10/10 | $26 |
| Accton 10/100M PCI RETAIL | $44 |
| D-Link DFE-530TX 10/100M PCI Ethernet | $51 |
| 3Com 3C905C 10/100M PCI Ethernet (OEM) | $96 |
| Compex 10/100M PCI Ethernet | $33 |
| Intel pro-100S desktop PCI Ethernet (oem) | $89 |
| NetGear FA311TX 10/100M PCI (oem) | $44 |

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## Computer Parts and Accessories

### CPUs

**Intel**

| | |
|---|---|
| Celeron 1000 | $179 |
| Celeron 1100 | $221 |
| Celeron 1200 | $240 |
| P3 - 1GHz S370 | $310 |
| P4 - 1.6GHz S478 | $370 |
| P4 - 1.7GHz S478 | $420 |
| P4 - 1.8GHz S478 | $495 |

**AMD**

| | |
|---|---|
| Athlon XP 1600 | $310 |
| Athlon XP 1700 | $350 |
| Athlon XP 1800 | $460 |
| Duron 900 & fan | $145 |
| Duron 950 & fan | $155 |
| Duron 1000 & fan | $170 |
| Duron 1200 & fan | $210 |

### Hard disks

| | |
|---|---|
| Notebook 10GB | $218 |
| Notebook 20GB | $265 |
| **Maxtor** 20GB | $170 |
| **Maxtor** 40GB | $190 |
| ***7200 RPM*** | |
| **WD** 200BB 30GB | $195 |
| **WD** 400BB 40GB | $240 |
| **WD** 600BB 60GB | $340 |
| **Maxtor** 20GB | $190 |
| **Maxtor** 30GB | $224 |
| **Maxtor** 40GB | $240 |
| **Maxtor** 60GB | $330 |

**Seagate**

| | |
|---|---|
| Barracuda IV 20GB | $190 |
| Barracuda IV 40GB | $236 |
| Barracuda IV 60GB | $317 |
| Barracuda IV 60GB | $390 |

**IBM**

| | |
|---|---|
| Deskstar 20GB | $203 |
| Deskstar 40GB | $259 |
| Deskstar 60GB | $329 |

### Motherboards

***Pentium III / Celeron***

| | |
|---|---|
| **ASUS** CUSL2 | $240 |
| **ASUS** TUSL2-C | $236 |
| **ASUS** TUSI-M | $165 |

**GIGABYTE**

| | |
|---|---|
| GA-6VTXE | $151 |
| GA-6OXET | $235 |
| GA-6OXT | $190 |
| **MSI**-6368 | $143 |
| **Aopen** AX34 | $188 |

**PROTAC**

| | |
|---|---|
| M758Imr/ M754Imr | $160 |

***Pentium 4***

| | |
|---|---|
| **Gigabyte** 8IDMLC | $244 |
| **Gigabyte** 8IDX | $290 |
| **Asus** P4T-F | $359 |
| **Asus** P4T-E | $410 |
| **Asus** P4B | $345 |
| **Asus** P4S333 | $320 |

***AMD Athlon / Duron***

| | |
|---|---|
| **Gigabyte** 71XE4 | $150 |
| **Gigabyte** 7ZXE | $180 |
| **Gigabyte** 7VTXE | $219 |
| **ASUS** A7VL-VM | $170 |
| **ASUS** A7V266-E | $335 |
| **ASUS** A7M266 | $360 |
| **ASUS** A7A266-E | $310 |
| **ABIT** KT7A | $221 |
| **ABIT** KT7A Raid | $265 |
| **ABIT** KG7 Light | $280 |
| **ABIT** KG7 | $309 |
| **ABIT** KG7 Raid | $357 |
| **MSI** K7T 6330 | $187 |
| **MSI** K7T266 Pro | $270 |
| **MSI** K7T266 Pro-RU | $310 |
| **PROTAC** M810 | $170 |
| **Shuttle** Ak31 | $230 |
| **Elitegroup** K7S5A | $170 |

### Video cards

| | |
|---|---|
| 4M 3D **PCI** | $45 |
| 8M SIS **PCI** | $55 |
| 32Mb TNT2 AGP | $77 |
| 32Mb TNT2 **PCI** | $97 |
| 32Mb TNT2 with TV out AGP | $100 |
| 32Mb TNT2 with TV out **PCI** | $150 |
| 32Mb TNT2 AGP with TV out &Video in | $150 |
| 64Mb GeForce 2 MX | $120 |
| **Matrox** G550 32Mb Dual head AGP | $297 |
| **ATI** DDR 64Mb Dual head AGP | $190 |

**ASUS**

| | |
|---|---|
| V7100 GeForce II MX400 64Mb TV out | $215 |
| V7700 Titanium 64Mb Deluxe, DDR | $470 |
| GeForce 3 64Mb Ti 200 | $623 |
| GeForce 3 64Mb Ti 500 | $935 |
| **Hercules** 3D Prophet DDR DVI 32Mb | $200 |
| **Hercules** 3D Prophet 4000 XT 32Mb | $119 |
| **Hercules** 3D Prophet 4500 64Mb TV out | $319 |
| **Hercules** 3D Prophet Ti 64Mb TV | $370 |
| **Hercules** 3D Prophet III Ti200 64Mb TV | $480 |
| **Hercules** 3D Prophet III Ti500 64Mb TV | $800 |
| **Leadtek** Winfast GeForce Ti 64M | $258 |
| **Leadtek** Winfast GeForce 3 Ti 200 64M | $440 |
| **Eagle** GeForce II MX AGP 32Mb TV-out | $130 |
| **Eagle** GeForce II MX AGP 64Mb | $150 |
| **Eagle** GeForce II MX G400 64Mb TV-out | $153 |
| **Pixelview** GeForce II MX400 AGP 32Mb | $130 |
| **Pixelview** GeForce Ti AGP 64Mb | $285 |

### CD Rewriters

| | |
|---|---|
| **Diamond** DD1610A 32x16x10 IDE Kit | $200 |
| **LG** GCE - 8240B 32x24x10 IDE Kit | $220 |
| **Acer** 2010A 40x20x10 IDE Kit | $228 |
| **Sony** CRX175E 40x24x10 IDE oem | $220 |
| **Sony** CRX160S 32x12x8 SCSI oem | $290 |
| **Ricoh** MP7240A 40x24x10 IDE Kit | $235 |
| **Ricoh** MP9120A 32x12x10 DVD Kit | $360 |
| **Ricoh** MP9200A 40x20x10 DVD 12x Kit | $460 |
| **Liteon** 24x10x40 kit | $220 |
| **Liteon** 32x12x40 kit | $330 |
| **Mitsubishi** Diamond external 32x6x4 USB | $330 |

### Printers

**EPSON**

| | |
|---|---|
| Stylus C20UX | $113 |
| Stylus C40UX / 40SX | $164 |
| Stylus C60 | $250 |
| Stylus C70 | $405 |
| Photo 810 | $345 |
| Photo 895 | $670 |
| Photo 1290 (A3) | $909 |

**Canon**

| | |
|---|---|
| BJC1000SP | $105 |
| BJC 2100SP | $140 |
| S-400 | $214 |
| S-300 | $259 |
| S-800 | $550 |
| Laser LBP810 (8ppm) | $475 |

**hp**

| | |
|---|---|
| HP 656C | $138 |
| HP 845C | $184 |
| HP 948C | $255 |
| LaserJet 1200 | $765 |
| **Panasonic** KX6100 | $305 |

### Scanners

| | |
|---|---|
| **Acer** 3300U | $119 |
| **Canon** N340P | $110 |
| **Canon** N640P | $130 |
| **Canon** N670U | $170 |
| **Canon** N676U | $200 |
| **Canon** N1240U | $275 |
| **Canon** D660U | $255 |
| **HP** 2200C | $174 |
| **HP** 4400C | $250 |
| **Mitsubishi** DV650U | $100 |
| **Epson Perfection** 1250 | $227 |
| **Epson Perfection** 1650 | $356 |
| **Epson** 1650 photo | $440 |

### Add on cards

| | |
|---|---|
| Promise U100 | $90 |
| PCI SCSI II card | $44 |
| USB PCI card | $35 |

### Sound Cards

| | |
|---|---|
| ISA / PCI Sound | $25 |

**Sound Blaster**

| | |
|---|---|
| PCI-128 oem | $41 |
| Live oem | $85 |
| Live DE 5.1 | $100 |
| Audigy DE | $199 |
| Audigy Platinum | $440 |

### Memory

| | |
|---|---|
| 128Mb SDRAM | $80 |
| 256Mb SDRAM | $140 |
| DDR 256M | $180 |

### Networking

| | |
|---|---|
| NIC 10/100Mb | $22 |
| 8 Port Hub 10Mb | $64 |
| 4 Port Hub 100Mb | $78 |
| 4 Port switch 10/100 | $90 |
| 8 Port switch 10/100 | $120 |
| USB Hub 4 port | $50 |

### CD & DVD Rom

| | |
|---|---|
| 52x CDROM | $65 |
| DVD 16x **Sony/Sams** | $130 |
| DVD16x **Pioneer/LG** | $130 |
| DVD 16x **Panasonic** | $160 |
| DVD 16x **Diamond** | $145 |

### Removable Storage

| | |
|---|---|
| 100Mb USB Zip | $179 |
| 100Mb Internal Zip | $110 |
| 250Mb USB Zip | $360 |
| 250Mb Internal Zip | $185 |

### Cases

| | |
|---|---|
| ATX Midi case | $55 |
| ATX Full tower case | $110 |
| ATX **Aopen** KF45 | $70 |
| ATX **Aopen** HX45 | $100 |
| ATX **Aopen** HQ 08 | $185 |
| ATX **Aopen** H600 | $185 |
| ATX **Macase** K580 | $140 |
| ATX **Macase** K80 | $138 |

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### Pentium 4 Series

- **P4** Motherboard
- 256M SDRAM PC133
- 20GB 7200rpm HDD
- Panasonic Floppy
- 64M GeForce II MX
- PCI 3D Sound card
- 16x DVD Rom
- 17" Acer / LG Monitor
- Subwoofer Speakers
- Midi Deluxe ATX case
- Microsoft Internet Keyboard
- Microsoft Intellimouse & Pad

| | |
|---|---|
| P4 1.5Gb | $1750 |
| P4 1.6Gb | $1790 |
| P4 1.7Gb | $1860 |
| P4 1.8Gb | $2000 |

### AMD Astra Pro

- **GA** Motherboard
- 128M SDRAM PC133
- 20GB 7200rpm HDD
- Panasonic Floppy
- 64M GeForce II MX
- S/B 128 Sound card
- 50x CD Rom
- 17" Acer / LG Monitor
- 480 Watt Speakers
- Midi Deluxe ATX case
- Acer Win98 Keyboard
- Microsoft Intellimouse & Pad

| | |
|---|---|
| Duron 950 | $1340 |
| AthlonXP1600 | $1495 |
| AthlonXP1700 | $1560 |
| AthlonXP1800 | $1690 |

### Value Series

- Pentium III Motherboard
- 128M SDRAM PC133
- 20GB HDD UDMA 100
- Panasonic Floppy
- 8M Video card built-in
- PCI 3D Sound card built-in
- 56K Modem V90
- 50x CD Rom
- 15" SVGA Monitor
- 120 Watt Speakers
- Midi Deluxe ATX case
- Win98 Keyboard
- A4 Mouse & Pad

| | |
|---|---|
| Celeron 950 | $970 |
| Celeron 1000 | $980 |
| Celeron 1200 | $1060 |
| Pentium III 1G | $1170 |

### Blank CDs

| | |
|---|---|
| **CD** 80min | $0.7 |
| **Ricoh/Kodak/Misumi** | $1.5 |
| **Verbatim/Kodak** 80m | $1.5 |
| Rewritable CD | $3.0 |

### Cameras

| | |
|---|---|
| **Logitech** clicksmart | $180 |
| **Creative** Web cam | $87 |
| **Vcam** Digital | $90 |
| **ViewExcel** | $80 |

### MS Software

| | |
|---|---|
| Windows ME / 98 | $210 |
| Windows XP Home Ed | $217 |
| Windows XP Professional | $335 |
| Windows 2000 oem-Full | $330 |
| Office XP Small Business | $380 |
| Office 2000 / XP & Pro-Full version oem | $500 |

### Monitors

| | |
|---|---|
| 15" **Samtron** 55E | $240 |
| 15" **LG / Packard Bell** | $240 |
| 15" **Mitsubishi / Acer** 54E | $250 |
| 17" **Olympic / Packard Bell** | $320 |
| 17" **Acer** V771C | $330 |
| 17" **Mitsubishi** 1770g | $330 |
| 17" **LG** 700S | $330 |
| 17" **Samsung** 75E | $330 |
| 17" **Hitachi** CM615ET | $357 |
| 17" **Diamond** 17NF | $580 |
| 17" **Sony** CPDE230 | $599 |
| 19" **Sony** CPDG420 | $1230 |
| 19" **Hitachi** CM721 | $726 |

### Modems

| | |
|---|---|
| 56K Int | $39 |
| **Netcomm** 56K Int | $44 |
| 56K Ext or USB | $90 |
| **Netcomm** Simplicity com | $99 |
| **Netcomm** Rave USB | $130 |
| **Netcomm** Roadster | $180 |
| **Dynalink** Ext | $90 |
| PCMCIA 56K | $130 |

### Speakers

| | |
|---|---|
| 120W SPKs / 480W | $10/$30 |
| 400W SPKs with Sub-Woofer | $40 |
| **Creative** PC S/Woofer | $78 |
| **Creative** FPS1500 4 Spks | $168 |
| **Creative** FPS1000 4 Spks | $125 |
| **Altec Lansing** ACS22 /300 | $40/$80 |

### Mice

| | |
|---|---|
| A4-Tech PS/2 or serial | $7 |
| A4-Tech PS/2 wheel | $15 |
| A4-Tech 4D wheel | $30 |
| A4-Tech wireless PS/2 | $30 |

**Logitech**

| | |
|---|---|
| PS/2 | $15 |
| Wheel PS/2 or USB | $30 |
| Optical PS/2 or USB | $45 |
| Optical cordless PS/2 / USB | $139 |

**Microsoft**

| | |
|---|---|
| IntelliMouse PS/2 | $30 |
| Wheel mouse Optical oem | $55 |
| IntelliEye Explorer oem | $75 |
| **SAMSUNG** Cyber Optical | $45 |

### Keyboards

| | |
|---|---|
| Win98 AT or PS/2 | $15 |
| **Acer** AT or PS/2 | $20 |
| Multimedia AT or PS/2 | $25 |
| **Logitech** Internet | $45 |
| **Logitech** Cordless Freedom | $129 |
| **Logitech** Cordless Optical | $220 |
| **Microsoft** Internet | $40 |
| **Microsoft** Internet Pro | $75 |
| **Microsoft** Natural Elite | $50 |
| **Microsoft** Natural Pro | $100 |
| **Honeywell** Multimedia | $50 |
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| **LG** wireless K/B with mouse | $100 |

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| CANON BJC-50/55/70/80/85/85W | 60 | 21-BKL |
| CANON BC-01/02/BJ-10E/20/200/BJC-210/240/255/265/1000 | 9 | 3-BKL |
| CANON BJC-600/610/820 | 16 | 5-BKL |
| CANON BJC-2000/4000/4100/4200/4300/4550/5000/5500 BCI-21 | 45 | 19-BKL |
| CANON BJC-2000/4000/4100/4200/4300/4550/5000/5500 BC-20 | 9 | 18-BKL |
| CANON BJC-3000/6000/6200/6500/8000 & S400/S500 Series | 12 | 46-BKL |
| CANON BJC-7000/7100 Series - Including Optimiser! | 8 | 43-BKL |
| CANON BJC-8200 & S800 Series | 6 | 52-BKL |
| HP Desk Jet 400/500 Series | 8 | 8A-BKL |
| HP Desk Jet 600/660/690 Series | 8 | 8B BKL |
| HP Desk Jet 700/800/900/1000/1100/1200 Series | 8 | 29 BKL |
| HP Desk Jet 300 Series & Olivetti JP's! | 12 | 7 BKL |
| EPSON Stylus 400/800/800+/1000 | 12 | 1 BKL |
| EPSON Stylus Colour /PRO/XL | 12 | 2-BKL |
| EPSON Stylus 820/colour II/Ills | 12 | 23-BKL |
| EPSON Stylus Colour 200/300/400/500/600/800/850/1520 | 12 | 33A-BKL |
| EPSON Stylus Colour 440/460/480/640/660/670/700/720/740/760/900/1160 | 12 | 33B-BKL |
| EPSON Stylus Colour 680/777/780/785/870/880/875/890/1270/1280 | 12 | Please Call! |
| LEXMARK 4076/1000/1020/2000/2030/2050 Series | 6 | 35A-BKL |
| LEXMARK 3000/5000/5700/7000 Series | 6 | 35B-BKL |
| LEXMARK Z11/Z12/Z22/Z31/Z32/Z42/Z51/Z52 & Other Z Series | 6 | 35C-BKL |

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| CANON BJC-210/210SP/240/255/265/1000 | 3x8 | 25-CLR |
| CANON BJC-600/610/820 | 3x8 | 10-CLR |
| CANON BJC-2000/4000/4100/4200/4300/4550/5000/5500 BCI-21 | 3x30 | 17-CLR |
| CANON BJC-3000/6000/6200/6500/8000 & S400/S500 Series | 3x8 | 47-CLR |
| CANON BJC-8200 & S800 Series | 3x6 | 53-CLR |
| HP Desk Jet 300/400/500 Series & Olivetti! | 3x12 | 14A-CLR |
| HP Desk Jet 600C/660C/690C Series | 3x12 | 14B-CLR |
| HP Desk Jet 850C/855C/870C/1000C Series | 3x3 | 30A-CLR |
| HP Desk Jet 710/720/890/900 Series | 3x3 | 30B-CLR |
| EPSON Stylus Colour /PRO/XL | 3x4 | 18-CLR |
| EPSON Stylus 820/colour II/Ills | 3x12 | 24-CLR |
| EPSON Stylus Colour 200/300/400/500/600/800/850/1520 | 3x12 | 34A CLR |
| EPSON Stylus Colour 440/460/480/640/660/670/700/720/740/760/900/1160 | 3x12 | 34B CLR |
| EPSON Stylus Colour 680/777/780/785/870/880/875/890/1270/1280 | 3x12 | Please Call! |
| LEXMARK 4076/1000/1020/2000/2030/2050 Series | 3x6 | 36A-CLR |
| LEXMARK 5000/5700/7000 Series | 3x6 | 36B-CLR |
| LEXMARK Z11/Z12/Z22/Z31/Z32/Z42/Z51/Z52 & Other Z Series | 3x6 | 36C-CLR |

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| ARCserve Workgroup | $1200 |
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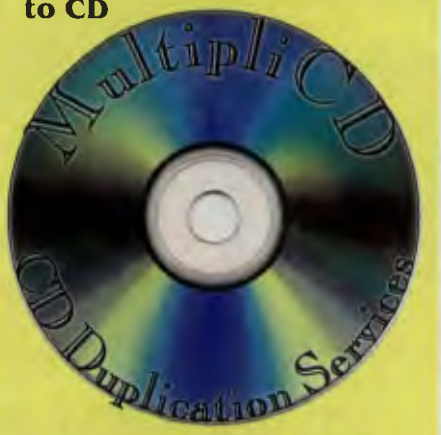


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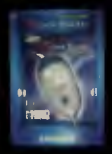

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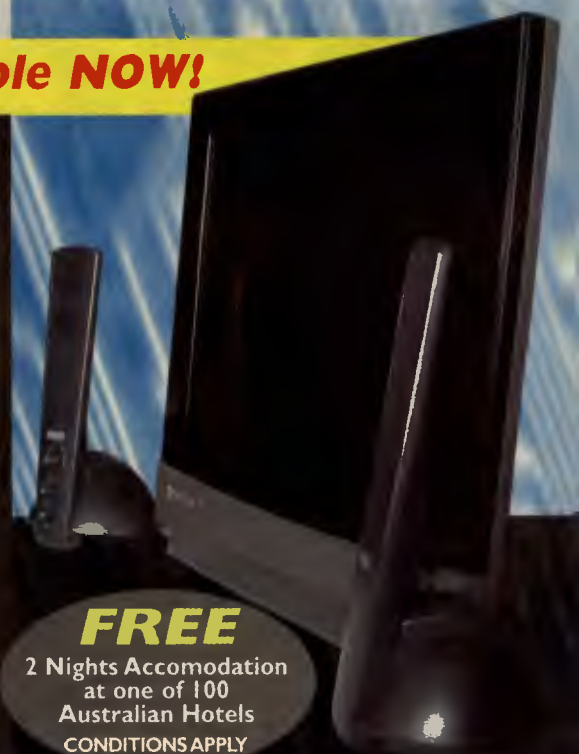

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